Bulletin 15
Approved Construction Materials

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(Updated bi-weekly, see following notice.)

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Overview

Bulletin 15 provides a listing of manufacturers of products approved for use in PennDOT's construction contracts. Customers interested in accessing Bulletin 15 listings should refer directly to either the Bulletin 15 General Index or the Detailed Index. The General Index is a key word index that will guide you to a specific area of the Detailed Index. Customers more familiar with Bulletin 15 or already know the particular specification area of interest and applicability may access the Detailed Index directly. From the Detailed Index the customer can directly access the listing for a chosen specification or product area.

Manufacturers requiring information on the Bulletin 15 approval process should proceed to the Preface to Bulletin 15. Suppliers and/or Marketing Representatives are NOT eligible for approval. However, they may obtain approved material from a Manufacturer listed in Bulletin 15 for resale to approved contractors.

It is the responsibility of the manufacturers of approved materials to provide the Department with updates of product and manufacturer information. Non-compliance may result in the removal of the manufacturer and their product(s) from Bulletin 15.

Users of Bulletin 15 should be aware that the information provided herein is as accurate as possible as of the date listed above; however, inaccuracies may occur due to update cycle or information not kept up to date by the manufacturer.

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COMMONWEALTH OF PENNSYLVANIA
Department of Transportation

Bureau of Construction and Materials
1118 State Street
Harrisburg , PA 17120

Publication # 35, Bulletin #15, "Approved Construction Materials"

Bulletin # 15 contains a listing of Manufacturers, Fabricators, Coaters and Precasters of Prequalified materials that have demonstrated the ability to meet the Department's specification requirements and are eligible to be considered for use on Department construction projects. Bulletin # 15 is used by the District Executive and his staff in reviewing and accepting the contractor's submission of materials and products intended to be used on a construction project.

Only Manufacturers, Fabricators, Coaters and Precasters may submit a product evaluation application to be considered for listing in Bulletin #15. Suppliers, Distributors, or Companies that Outsource or Private Label their products are not eligible for listing in Bulletin #15 and do not qualify to apply, However, they may obtain material from any approved source listed in Bulletin # 15, for resale to approved contractors.

All eligible applicants must submit a notarized document certifying that their company does in fact Manufacture, Fabricate, Coat or Precast the product listed on the application.Eligible firms who wish to have a product(s) listed in this publication should initiate the approval process for their product(s) by contacting the Bureau of Construction and Materials, Engineering Technology andInformation Division, at (717)-783-9673 and request form CS-4170, "Preliminary Product Evaluation Application" or visit the Department's Website at ftp://ftp.dot.state.pa.us/public/pdf/cs4170.pdf.

After a product has been approved, materials will be accepted on the project in accordance with the applicable Department Specifications. Shipments of materials accepted by certification are to be accompanied by a completed form CS-4171, "Certificate of Compliance". Visit the Department's Website at ftp://ftp.dot.state.pa.us/public/pdf/cs4171.pdf to obtain the CS-4171 "Certificate of Compliance" form.

To insure conformance to the specifications, products may be monitored via quality assurance, verification and acceptance testing to ensure the quality of the material used is maintained. Random sampling and testing will be performed by the Quality Assurance and the Materials and Testing Divisions, Bureau of Construction and Materials. Also, District personnel may sample specific materials whenever they suspect that the material does not meet specifications.

Listing in Bulletin #15 is conditional on satisfactory performance and/or compliance with specifications. A manufacturer and/or product(s) will remain on the approved list until such time as it is removed for any of the following reasons:

- Failure of the product to meet appropriate specifications.
- Failure of the party listed in Bulletin #15 to submit or adhere to a Quality Control Plan.
- Falsification of information provided on the Certificate of Compliance form CS-4171.
- Failure to notify the Bureau of Construction and Materials within ten (10) days of any change to company name, address, phone number, product name, formula, quality control plan or manufacturing process. (It is essential that the Bureau have uninterrupted communication with manufacturers listed in Bulletin #15).

Once removed, the Manufacturer, Fabricator, Coater or Precaster and/or their product(s) will only be reinstated in Bulletin # 15 after requalification of their product(s) by satisfactorily demonstrating to the Bureau of Construction and Materials that their product(s) is again in compliance with specifications, and corrective measures have been implemented to prevent similar future issues.

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Bulletin 15 includes items from Sections 900 (Traffic Accommodation and Control), Section 1103 (Traffic Signing and Marking), and Section 1104, (Traffic Signals). These sections are under the control of the Bureau of Highway Safety & Traffic Engineering. Items from Sections 1101, (Highway Lighting) are under the control of the Bureau of Design, Highway Lighting Section. A number of maintenance items listed throughout Bulletin 15 are under the control of The Bureau of Maintenance and Operations. In these areas listed above, a manufacturer's quality control plan is not required for product approval unless otherwise directed by the appropriate Bureau. Product Evaluation information from vendors related to any of the subject areas is generally maintained by the controlling Bureau.

Provisional Approval

Products approved under provisional specifications will be listed in Bulletin 15 with the notation, "**Provisional Approval**" next to the product name. The Department has the right to remove any provisional products listed in Bulletin 15 immediately for reasons including, but not limited to, poor performance, hazardous conditions and/or non-use of the product. When appropriate, a provisional specification may also be deleted by the Bureau of Design. Provisional products will be monitored for an appropiate period of time from not less than one year for maintenance items to not less than 5 years for high risk structural items. If the evaluation of a provisional product is successful, the provisional approval notation adjoining the product name listed in Bulletin # 15 may be removed.

REFERENCE NUMBER CODE (REF. NO.):

Reference Number codes are:

(1) The PE/PEQ control number under which the item was tested and approved. (the first two digits are the year of submission).

(2) A series of dashes for items that were Grandfathered into Bulletin 15, when it was first issued.

Exceptions are Traffic items and Precast and Prestressed items.
The Traffic Division "Approval Certificate" number is sometimes used for traffic items.
Precast and Prestressed Items use the issue date of the approval letter from the Structural Materials Section of MTD.

Producers of materials not included in this publication can be found in the following Bulletins:

Bulletin 14, Aggregate Producers (Publication 34).
Listing of aggregate sources that meet requirements of Section 703 of Publication 408 (M).
Bulletin 41, Producers of Bituminous Mixtures (Publication 41)
Listing of Bituminous plants that meet the requirements of Section 401.3(b) of Publication 408 (M) and Chapters 1 & 1A of Bulletin 27.
Bulletin 42, Producers of Ready-Mixed Concrete (Publication 42)
Listing of Ready-Mix Concrete plants that meet the requirements of Section 704 of Publication 408 (M).

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The 2004 Edition of Bulletin # 15 has been modified to include all Publication 408/2003 (E-Spec.) changes that have effected this document. In some cases, entire Sections have been renumbered and moved. For your convenience, all Publication 408/2003 changes that effected Bulletin # 15 may be found on this page.

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SECTION 467.2(a)
HEAVY DUTY MEMBRANE

			REF. NO.
AMOFF	Amoco Fabrics & Fibers Co. 260 The Bluffs Austell, GA 30168	Petrotac: 12" Width	80-099 Ltr 09/15/86
PAVTH	Pavetech International 105 May Drive Harrison, OH 45030	Paveprep: 20" Width Geotac: 12" Width	Ltr 09/15/86 00-139
POLYG	Polyguard Products, Inc. 3801 South Business 45 Ennis, TX 75119	Polyguard 665	00-317

SECTION 501
REINFORCED OR PLAIN CEMENT CONCRETE PAVEMENTS
DOWEL BAR SLEEVE, REINFORCED PLASTIC

			REF. NO.
BEDRP	Bedford Reinforced Plastics, Inc. R.D. #2, Box 225 Bedford, PA 15522		97-151
CPULT	Creative Pultrusions, Inc. 214 Industrial Lane, P. O. Box 6 Alum Bank, PA 15521-0006	Pultex 1500 **(Fiberglass reinforced)**	92-199
STRFG	Structural Fiberglass, Inc. Business Route 220 North Bedford, PA 15522		97-150

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SECTION 503.2 and 1019.2(a)
PROTECTIVE COATINGS FOR:
CEMENT CONCRETE PAVEMENTS & REINFORCED CONCRETE SURFACES
BOILED LINSEED OIL: AASHTO M-233

Silicates in Water may be used as a Approved Product Alternative to Boiled Linseed Oil as noted in:

❶ **PROVISIONAL SPECIFICATION: Special Provision S00(PD05031A) & S00(PD10191A)**

			REF. NO.
CHEMM	Chem Masters 300 Edwards St. Madison, OH 44057	Boiled Linseed Oil, Anti-Spall 50	----------
DAYT1	Dayton Superior 4226 Kansas Avenue Kansas City, KS 66106	Day Chem Anti-Spall (J-33)	90-147
DEGEN	Degen Oil & Chemical Co. 200 Kellogg St. P.O. Box 5240 Jersey City, NJ 07305	Boiled Linseed Oil & Mineral Spirits	98-173
EUCLD	Euclid Chem. Co. 19218 Redwood Rd. Cleveland, OH 44110	Euco Linseed Oil Compound	----------
KAUFM	Kaufman Prod., Inc. 3811 Curtis Avenue Baltimore, MD 21226-1131	ASA Anti-Spalling Agent	83-052
L&MCC	L&M Construction Chemicals, Inc. 14851 Calhoun Road Omaha, NE 68152	Boiled Linseed Oil - Anti-Spall	90-177

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SECTION 503.2 and 1019.2(a)
PROTECTIVE COATINGS FOR:
CEMENT CONCRETE PAVEMENTS & REINFORCED CONCRETE SURFACES
BOILED LINSEED OIL: AASHTO M-233

Silicates in Water may be used as a Approved Product Alternative to Boiled Linseed Oil as noted in:

❶ **PROVISIONAL SPECIFICATION: Special Provision S00(PD05031A) & S00(PD10191A)**

			REF. NO.
MEDW1	Meadows, W. R., of PA 2100 Monroe St., P.O. Box 7550 York, PA 17404-0550	Sealtight Lin-Seal	92-265
PRUET	Pruett-Schaffer Chem. Co. 3327 Strafford Street Pittsburgh, PA 15204	Anti-Spalling Comp.	97-080
SUNNY	Sunnyside Corporation 225 Carpenter Avenue Wheeling, IL 60090	Boiled Linseed Oil, Anti-Spall 75055	00-150
TAMMS	Tamms Industries, Co. 3835 State Route 72 Kirkland, IL 60146	Tri-Dar 66/1A	87-113
VEXCN	Vexcon Chemicals, Inc. 7240 State Road Philadelphia, PA 19135	Certi-Vex Linseed Anti-Spall	00-066
WKTEK	Wicktek, Inc. P. O. Box 59 Farmington, PA 15437	❶ Densicrete	95-049
ZIMME	Zimmerman, E.E., Co. 1370 Old Freeport Road, Suite 2-A P.O. Box 111254 Pittsburgh, PA 15238	Boiled Linseed Oil & Mineral Spirits	----------

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SECTION 516.2(k)
ANCHOR MATERIAL (Dowel Bar Adhesives)

			REF. NO.
CHMRX	ChemRex, Inc. 889 Valley Park Drive Shakopee, MN 55379	Concressive 1420	95-016A
DAYT1	Dayton Superior 4226 Kansas Avenue Kansas City, KS 66106	Sure-Anchor I (J-51)	96-204
HILT-	Hilti, Inc. 5400 South 122nd East Ave. P. O. Box 21148 Tulsa, OK 74121	Hilti HVA Adhesive Hilti Hit C-100 Hilti HSE 2411 Epoxy Hilti Hit HY 150 Injection Adhesive * Hilti HSE 2421 Adhesive * Manufactured by U.S. Anchor Corp. RE-500 Anchoring Epoxy	00-123 88-152 93-038 96-054 99-094 01-100
ITW-R	ITW Ramset/Red Head 1300 North Michael Dr. Wood Dale, IL 60191	EPCON Sys Acrylic 7	97-027
KAUFM	Kaufman Products 3881 Curtis Avenue Baltimore, MD 21226-1131	Sure-Poxy 116 Sure-Poxy 117	92-169 90-371
KELKN	Kelken Construction Systems P. O. Box 284 3220 Bordentown Ave. Parlin, NJ 08859	Kelipoxy Kelipoxy II Keligrout 101P	87-315 88-247 98-116
LAFR10	Lafarge North America 1 Foot of Ohio Street Chesapeake, VA 23324	Fondu Cement Capsule	96-192
MEDW0	W. R. Meadows, Inc. 300 Industrial Drive P.O. Box 338 Hampshire, IL 60140-0338	Rezi-weld gel paste y	93-280

p004

SECTION 516.2(k)

ANCHOR MATERIAL (Dowel Bar Adhesives)

			REF. NO.
MKTFS	MKT Fastening LLC #1 Gunnebo Drive Lonoke, AR 72086	Liquid Roc 300 Twin Tube Polyester Resin	94-199
PLYGM	PolyGem, Inc. 1105 Carolina Drive West Chicago, IL 60185	#1257 Epoxy Anchoring Adhesive	93-270
POWFS	Powers Fasteners, Inc. 2 Powers Square New Rochelle, NY 10801	Dowel Fast Adhesive AC 100 Plus	98-130 01-232
SIKA1	Sika Corporation 1682 Marion Williamsport Rd. Marion, OH 43302	Sikadur InjectionGel Sikadur DOT SP 3/4 DBA (epoxy as Injection Gel)	89-236 89-236
SIMST	Simpson Strong Tie, Inc. 136 Official Road Addison, IL 60101	Acrylic Tie	99-223
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Duralith Gel Dural Fast Set Epoxy Gel	97-030 99-184
UNITX	Unitex 3101 Gardner Kansas City, MO 64120	Pro-Poxy 300 Fast Pro-Poxy 400	96-004 01-228
USANC	U. S. Anchor Corp. 450 East Copens Road Pompano Beach, FL 33064	Ultrabond 1300 Ultrabond 2200 Ultrabond 3 Ultrabond Speedset-2 Anchor-It HS-200	92-013B 92-013C 92-013D 99-031 02-048

p005

SECTION 516.2(m)
PREFORMED CELLULAR POLYSTYRENE

			REF. NO.
DOW-3	Dow Chemical Corporation 200 Lackin Center 1605 Joseph Drive Midland, MI 48674	High Performance Underlayment	99-181
INSYA	Insulation Corp. of America 2571 Mitchell Ave. Allentown, PA 18103	Ica-Lite EPS	92-167
OWENC	Owens Corning One Owens Corning Parkway Toledo, OH 43659	Foamular 150, 250, 400, 600, 1000	02-005
PACTV	Pactiv Building Products 2100 Riveredge Pkwy., Suite 175 Atlanta, GA 30328	Amocor PB4	88-270

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SECTION 601.2(a)3a
REINFORCED CEMENT CONCRETE PIPE

		Reinforced Concrete Pipe			PennDOT Certification (C) Inspection (I) Note 1	ACPA Q-Cast Certification(Q) Note 2
		ROUND	ELLIPTICAL	END SECTIONS		
CAYG1	Cayuga Concrete Pipe, Inc. P. O. Box 86 New Britain, PA 18901	X			C	Q
CAYG2	Croydon, PA	X		X	C	Q
CAYG3	*Montrose, PA	X		X	C	Q
EAGLE	Eagle Concrete Prod. P. O. Box 585 Somerset, PA 15501	X		X	C	
HANS2	Hanson Pipe & Products 7925 Enpire Parkway Macedonia, OH 44056-2144	X	X		C	
HYDR1	Hydro Conduit Division of Rinker Materials 2000 Gregg Station Road P.O. Box 126 Oakdale, PA 15071	X	X	X	C	Q
HYDR2	Middletown, DE 19709	X	X	X	C	
HYDR3	Diamond, OH 44412 ◆	X	X		I	

◆ **The Diamond, Ohio Plant (HYDR3**) only manufactures round pipe with a diameter ≥ 48" (1200mm) and elliptical pipe with a major axis ≥ 45" (1150mm)

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SECTION 601.2(a)3a
REINFORCED CEMENT CONCRETE PIPE (continued)

		Reinforced Concrete Pipe			PennDOT Certification(C) Inspection (I) Note 1	ACPA Q-Cast Certification (Q) Note 2
		ROUND	ELLIPTICAL	END SECTIONS		
KERR1	Kerr Concrete Pipe Co. P. O. Box 312 Hammonton, NJ 08037	X	X	X	C	Q
KERR2	Farmingdale, NJ 07727	X	X	X	C	Q
UPPCP	Upper Penninsula Concrete Pipe P. O. Box 313 Esconaba, MI 49829			X	C	
VIANN	Vianini Pipe, Inc. 81 County Line Road P. O. Box D Somerville, NJ 08876	X	X	X	C	

Note: 1

Only the following pipe types & sizes may be certified by producer listed above for certification: **Round Pipe**: Less than 48" (1200mm) in diameter, **Elliptical Pipe**: Major axis less than 45" (1150mm), **Flared End Sections**: All sizes round & elliptical
All other standard pipe including all special design pipe which require a formal approval of the design, as indicated in Pub. 280 & BD-636 will continue to recieve "in-plant" inspection during mfg. & will be stamped by the Department or our consultant inspection agency.

Note: 2

Companies maintaining an American Concrete Pipe Association Q-Cast certification, identified above, do not require in-plant inspection for standard design concrete pipe, any diameter.
All special design pipe will continue to receive in-plant inspection and an inspection stamp, regardless of the manufacturer's certification status. Special design pipe are identified as those pipe for which Department has not provided a standard design in BD-636. Special design pipe are identified in BD-636 by a double asterick '**'. Pipe produced by Q-Cast certified companies will be stenciled or stamped with the 'Q-Cast' logo.

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SECTION 601.2(a)3a
REINFORCED CEMENT CONCRETE PIPE (continued)

RELATED ITEMS

❶ **Provisional Approval : MTD must be contacted prior to use. (717) 787-2489**
◆ **Plasticizer for RCCP Mixes**

			Ref. No.
CONAM	Concrete Accessory Mfg'ering 211 East Dowland Street Ludington, MI 49431	Quik-Fit Stirrup Mat (Pub. 280) Camlock Spacers (Pub. 280)	94-249 94-250
EUCLD	Euclid Chem. Co. 19218 Redwood Rd. Cleveland, OH 44110	❶ ◆ Eucolith R	00-202
GRAC7	Grace, W. R. 7221 West Parkland Court P. O. Box 23432 Milwaukee, WI 53223-3432	◆ Plastex 400 ◆ DBM-S ◆ Hyper I	93-043 92-285 95-060
KRETE	Krete Industries P. O. Box 343 Butler, WI 53007	◆ Krete Econo Plast	92-343

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SECTION 601.2
Steel Products Procurement Act applies.

❶ = (a)4.a **Ductile Iron Pipe:** **ASTM A716**
❷ = (a)4.b **Corrugated Steel Pipe, Metallic Coated:** **AASHTO M-36, Type I & IR;** AASHTO M-218, M-274 & M-289
❸ = (a)4.c **Corrugated Aluminum Alloy Pipe:** **AASHTO M196, Type 1 & 1R**
❹ = (a)4.d **Coated Corrugated Galvanized Steel Pipe:** **AASHTO M-218, M-245 & M-246**

Note : Approved Pipe Manufacturers listed in this section may also provide End Sections & Slope Pipe Fittings.

		Type	Ref. No.
ATLST	Atlantic States Cast Iron Pipe Co. 183 Sitgraves St. Philipsburg, NJ 08865	❶	----------
CON00	Contech Construction Prod., Inc. 1001 Grove Street Middletown, OH 45044 Plants:		----------
CON02	New Castle, DE	❷, ❸	
CON03	Conyers, GA	❷, ❸, ❹	
CON04	Mitchell, IN	❸	
CON05	Ashland, KY	❷	
CON07	Schakopee, MN	❷, ❸	
CON08	Palmer, MA	❷, ❸, ❹	
CON11	Raleigh, NC	❷, ❸, ❹	
CON12	Greencastle, PA	❷, ❹	
CON14	Anderson, SC	❸	
CULVE	Culverts, Inc. P.O. Box 271, Pittsburgh Ave. Coraopolis, PA 15108	❷, ❸, ❹	----------
GRIFP	Griffin Pipe Products Co. 1100 West Front St. Florence, NJ 08518	❶	99-218

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SECTION 601.2
Steel Products Procurement Act applies.

❶ = (a)4.a **Ductile Iron Pipe:** **ASTM A716**
❷ = (a)4.b **Corrugated Steel Pipe, Metallic Coated:** **AASHTO M-36, Type I & IR;** AASHTO M-218, M-274 & M-289
❸ = (a)4.c **Corrugated Aluminum Alloy Pipe:** **AASHTO M196, Type 1 & 1R**
❹ = (a)4.d **Coated Corrugated Galvanized Steel Pipe:** **AASHTO M-218, M-245 & M-246**

Note : Approved Pipe Manufacturers listed in this section may also provide End Sections & Slope Pipe Fittings.

		Type	Ref. No.
LANE0	Lane Enterprises, Inc. 3705 Hartzdale Dr., Suite 514 Camp Hill, PA 17011 Plants:		----------
LANE1	Bath, NY 14810	❷, ❸	
LANE2	Bedford, PA 15522	❷, ❸, ❹	
LANE3	Pulaski, PA 16143	❷, ❸	
LANE4	King of Prussia, PA 19406	❷, ❸	
STELL	Stelling Company, Inc. 723 Hiawatha Blvd. W. Syracuse, NY 13218-1181	❷	98-109
USP&F	U. S. Pipe & Foundry Co. 1101 E. Pearl St. Burlington, NJ 08016	❶	83-085
WCIST	WCI Steel 1040 Pine Avenue S.E. Warren, OH 44483-6528	❷, ❸, ❹	----------

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SECTION 601.2(a)4.b
CORRUGATED STEEL PIPE, METALLIC COATED

RELATED ITEMS

			Ref. No.
J&J-D	J & J Drainage 110 N Pershing Hutchinson, KS 67054-0829	Band Angle	84-073
LANE0	Lane Enterprises, Inc. 3905 Hartzdale Dr. (Suite 514) Camp Hill, PA 17011	Pipe bands	82-024
LMP-S	LMP Steel & Wire Co. 2000 East First Street Maryville, MO 64468	A-307 Grade A, 6" & 8", electroplated, CMP band Bolts	91-120A,B

SECTION 601.2(a)4.d
COATED CORRUGATED GALVANIZED STEEL PIPE

RELATED ITEMS

			REF. NO.
DOW-2	Dow Chemical 4520 Ashman Street Building 9008, Customer Info. Midland, MI 48642	Trenchcoat DAF 625 **(Plastic coating for galvanized steel pipe)**	90-304
PUREA	Pure Asphalt Co. 3300 West 31st Street Chicago, IL 60623	Culvert Mastic (Spray Grade) **(Also listed under Section 702)**	90-270

SECTION 601.2(a)6
THERMOPLASTIC PIPES

			REF. NO
ADS-0	Advanced Drainage Sys., Inc.	6.c.1, Group III, 18" to 30" (15" Maintenance)	95-322
	4640 Trueman Blvd.	6.d.1, Group IV, 36", Type S	95-322
	P. O. Box 3000	6.e.1, Group V, 18" to 24" (15" Maintenance)	95-322
	Hilliard, OH 43026	6.d.1, Group IV, 42" & 48" HDPE (AASHTO MP6-95)	97-128
ADS-1	Muncy, Pa	6.d.1, Group IV, 42", Type S, HDPE	00-003
ADS-2	Wooster, OH	6.d.1, Group IV, 48", Type S, HDPE	01-193
ADS-3	Ludlow, MA	6.d.1, Group IV, 60", Type S, HDPE	03-069
ADS-4	Buena Vista, VA		
BAUGH	Baughman Tile Co.	6.c.1, Group III, 18", Type S, HDPE	00-040
	8516 Township Rd. #137	6.c.1, Group III, 24", Type S, HDPE	01-013
	Paulding, OH 45879	6.c.1, Group III, 30", Type S, HDPE	01-014
		6.d.1, Group IV, 36", Type S, HDPE	03-050
CHVPL	Chevron Plexco	6.a.1, Group I, RSC=100, 36" Maximum	98-206
	1050 IL. Rt. 83, Suite 200	6.a.1, Group I, RSC=160, 18" to 42"	98-207
	Bensenville, IL 60106-1048	6.a.1, Group I, SDR<21, 48" Maximum	98-208
		6.a.1, Group I, SDR=26, 21" to 48"	98-209
CON00	Contech Constr. Prod., Inc.	6.a.2, Group I, 15" to 36" PVC **(15" Maintenance Only)**	00-326
	1001 Grove St.		
	Middletown, OH 45044		
CRUMP	Crumpler Plastic Pipe, Inc.	6.c.1, Group III, 18" & 24", Type S, PE	96-268/69
	P. O. Box 2068	6.c.1, Group III, 15" Maintenance	96-267
	Roseboro, NC 28382		
DRAPR	Drainage Products, Inc.	6.c.1, Group III, 18" to 30" Type S, HDPE	00-124
	Main Street, Box 61	6.d.1, Group IV, 36" & 42" Type S, HDPE	00-124A
	Haviland, OH 45851		

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SECTION 601.2(a)6
THERMOPLASTIC PIPES

			REF. NO
EXTCH	Extrusion Technologies, Inc. 1700 Broadway Suite 1710 Denver, CO 80290 **Formerly: Uponor ETI Co. (UPONR)**	6.a.2, Group I, 18" to 30" PVC **(15" Mainte nance Only)** 6.a.2, Group 1, 30" & 36" PVC **(Corrugated)**	88-029 97-007
HANC0 **HANC1**	Hancor, Inc. 401 Olive Street Findlay, OH 45840 Waverly NY	6.c.1, Group III, 18" to 30" (15" Maintenance ONLY) 6.d.1, Group IV, 42" (1050mm) & 48"(1200mm), Sure-Lok Annular Corrugated, PE 6.d.1, Group IV, 36" 6.e.1, Group V, 18" to 24" (15" Maintenance ONLY) 6.d.1, Group IV, 54 & 60	 97-134 98-017
ISCFB	ISCO, Industries, Inc. 926 Baxter Ave. P.O. Box 4545 Louisville, KY 40204 **(Connection Fabricator)**	Snap-Tite Culvert Liner 6.a.1, Group I, SDR<21, 18" - 48" (450mm - 1200mm) 6.a.1, Group I, SDR=26, 21" - 48" (525mm - 1200mm) **The Snap-Tite Connection is fabricated exclusively on pipe manufactured by Phillips Driscopipe, Inc.**	 94-189 94-189
LANE6	Lane Enterprises, Inc. 34 Strohm Road Shippensburg, PA 17257	6.c.1, Group III, 18" to 30" (15" Maintenance ONLY) 6.c.1, Group III, 24"(610mm) Type S, HDPE 6.c.1, Group IV, 36"(915mm) Type S, HDPE	96-190 96-190 96-272
LAMVP	Lamson Vylon Pipe 25701 Science Park Dr. Cleveland, OH 44122	6.a.2, Group I, 21" to 48" PVC	95-114
PHILD	Phillips Driscopipe, Inc. 2929 North Central Expressway Suite 300 Richardson, TX 75083	6.a.1, Group I, SDR<21, 18" - 48" (450mm - 1200mm) 6.a.1, Group I, SDR=26, 21" - 48" (525mm - 1200mm)	94-094 94-094

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SECTION 601.2(a)6
THERMOPLASTIC PIPES

			REF. NO
PLYSY	Poly Systems, Inc. P. O. Box 1157 Steelville, MO 65565	6.c.1, Group III, 15" (375 mm) (Maintenance ONLY) 6.c.1, Group III, 18" Thru 30" (450mm - 750mm) 6.d.1, Group IV, 36 (900mm) & 42 (1080mm)	98-012 98-012 98-012
ROYAL	Royal Pipe Systems 131 Regalcrest Court Woodbridge, On., Can. L4L 8P3	6.a.2, Group I, 18" & 24" PVC 6.a.2, Group I, 15" Maintenance ONLY, PVC	02-012 02-012
VANDA	Van Dam, D. A., & Assoc. 1540 Fisher Drive Hubbard, OH 44425 Plant Location:		
JMMC1	J-M Mfg. Co. Franklin, PA	6.a.2, Group I, 18" Thru 48" PVC	95-314

SECTION 603.2(a)
METAL PLATE CULVERTS
Fabricators

			REF. NO.
CON00	Contech Constr. Prod., Inc. 1001 Grove St. Middletown, OH 45044 **Plants:**	Aluminum plate box culvert Aluminum plate pipe	94-245 94-246
CON06	Winchester, KY		
CON14	Anderson, SC		
LANE3	Lane Enterprises, Inc. P. O. Box 345, State Rt. 551 Pualaski, PA 16143		----------
TRIN0	Trinity Industries Syro Steel Division 1170 North State Street Girard, OH 44420	Long Span Steel Culvert	85-009

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SECTION 604.2(a)1
COMBINATION STORM SEWER AND UNDERDRAIN
(Perforated Pipe)

			REF. NO.
ADS-0	Advanced Drainage Sys., Inc. 4640 Trueman Blvd. P. O. Box 3000 Hilliard, OH 43026	1.e, Group III P, 12" to 30", Type SP 1.f, Group IV P, 36", Type SP	95-322 95-322
	Other plants:	1.g, Group V P, 12" to 24", Type CP	95-322
ADS-1	Muncy, PA	1.f, Group IV P, 42", Type SP	00-002
ADS-3	Wooster, OH	1.f, Group IV P, 48", Type SP	01-194
ADS-4	Buena Vista, VA		
BAUGH	Baughman Tile Co. 8516 Township Rd. #137 Paulding, OH 45879	1.e, Group III P, 24" & 30", Type SP	01-015&16
CON00	Contech Constr. Prod., Inc. 1001 Grove St. Middletown, OH 45044	1.c, Group I P, 12" to 36", Type SP	00-327
DRAPR	Drainage Products, Inc. Main Street, Box 61 Haviland, OH 45851	1 e, Group III P, 12" to 30", Type SP	00-125
EXTCH	Extrusion Technologies, Inc. 1700 Broadway Suite 1710 Denver, CO 80290 **Formerly: Uponor ETI Co. (UPONR)**	1.c, Group I P, 15" to 24", Type SP 1.c, Group I P, 30" & 36", Type SP	00-194 00-194
HANC0	Hancor, Inc. 401 Olive Street Findlay, OH 45840	1.e, Group III P, 12" to 30", Type SP 1.f, Group IV P, 36", Type SP 1.g, Group V P, 12" to 24", Type CP	
	Other plants:	1.f, Group IV P, 42", Type SP	98-016A
HANC1	Waverly, NY	1.f, Group IV P, 48", Type SP	98-016B
LANE6	Lane Enterprises, Inc. 34 Strohm Road Shippensburg, PA 17257	1.e, Group III P, 12" to 30", Type SP 1.f, Group IV P, 36", Type SP	97-182 97-182

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SECTION 605.2(a)
INLET GRATES AND FRAMES
Steel Products Procurement Act applies.

A = Welded Steel Grates
B = Bicycle Safe Grates
C = Type H Steel Grates
D = Type D-H Steel Grates
E = Welded Steel Vane Grates
F = Welded Steel Inlet Frames
G = Welded Inlet Angles
H = Alt. Type H Steel Grates
I = 2'x4' Type S Top
J = Cast Iron Junction Box & Frames
K = Steel Junction Box & Frames
L = ◆ Cast Iron Grates & Frames, HS20 loading
◆**(Use Outside of Travel Lanes Only)**
M = Cast Iron Grates & Frames HS25 loading
N = **(ADA)** Acceptable (Americans f or Disabilities Act)
O = Trash Rack/Anti-Vortex Device

			REF. NO.
ANDRE	Andrews Metal Prod., Inc. Division of East Jordan Iron Works 745 Andrews Rd. Youngstown, OH 44505	A B, C, D, E, F, & G	88-235 91-200
BEHNE	Behney Fabricators & Welding, Inc. 517 King Street. Lebanon, PA 17042	A, B, D, E, F, G, H, & I	---------
BERMF	Bear Ridge Machine & Fabrication, Inc. 10 Eleanor Avenue Frackville, PA 17931	A, B	02-113
EASTJ	East Jordan Iron Works P. O. Box 439 East Jordan, MI 49727	L, M	86-011
FISHW	Fisher Welding & Fabrication 923 Deturksville Road, P.O. Box 28 Pine Grove, PA 17963	K	93-213
FORMF	Form Fab, Inc. 2174 Route 22 Highway West Blairsville, Pa 15717	A, B, F, K	02-090

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SECTION 605.2(a)

INLET GRATES AND FRAMES (Continued)

Steel Products Procurement Act applies.

A = Welded Steel Grates
B = Bicycle Safe Grates
C = Type H Steel Grates
D = Type D-H Steel Grates
E = Welded Steel Vane Grates
F = Welded Steel Inlet Frames
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◆**(Use Outside of Travel Lanes Only)**
M = Cast Iron Grates & Frames HS25 loading
N = **(ADA)** Acceptable (Americans for Disabilities Act)
O = Trash Rack/Anti-Vortex Device

			REF. NO.
IKG-G	IKG Greulich / SAI P. O. Box 295 Cheswick, PA 15024	A, C	----------
JERDW	Jerdon Welding 409 Wiconisco Street Wiconisco, PA 17097	F	01-041
KENGC	Kenglo Construction Supply Co., Inc. P. O. Box 54, Route 403 South Strongstown, PA 15957	A, B, C, D, F, K, & O	98-039
LANE0	Lane Enterprises, Inc. 3705 Hartzdale Dr., Suite 514 Camp Hill, PA 17011 Plants:		
LANE2	Bedford, PA 15522	O	02-050
LANE3	Pulaski, PA 16143	O	02-049
LANE4	King of Prussia, PA 19406	O	02-068
LAURE	Laurel Steel P.O. Box 44 Scottsdale, PA 15683	A, B, C, D, E, F, & G	87-416
LEBVE	Lebanon Valley Ent., Inc. 410 East Lincoln Ave. Myerstown, PA 17067	A, B, E, & F	Ltr 10/30/95

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SECTION 605.2(a)

INLET GRATES AND FRAMES (Continued)

Steel Products Procurement Act applies.

A = Welded Steel Grates
B = Bicycle Safe Grates
C = Type H Steel Grates
D = Type D-H Steel Grates
E = Welded Steel Vane Grates
F = Welded Steel Inlet Frames
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◆**(Use Outside of Travel Lanes Only)**
M = Cast Iron Grates & Frames HS25 loading
N = **(ADA)** Acceptable (Americans for Disabilities Act)
O = Trash Rack/Anti-Vortex Device

				REF. NO.
MCCAR	Bill McCarroll Precast R. D. #2 Dallas, PA 18612	F (Rebar Cages for Top Units)		Ltr 10/15/96
MILES	Miles Foundry 301 Bedford Street Clarks Summit, PA 18411	A, B, D, F & L		----------
MORGA	Morgan Welding R.D. #1, Box 172F Myerstown, PA 17067	A, B, C, D, E, F, G, H, & K		Ltr 7/11/83
NEENA	Neenah Foundry Co. Box 729, 2121 Brooks Ave. Neenah, WI 54956	L	**Provides HS25 Grate**	----------
		M	**Grate #3573-0002**	96-187
		M	**Frame #3573-2000, Type C**	96-188
		M	**Frame #3574-2000, Type M**	96-189
		B, M, N	**Grate #3573-0007, Type Q**	96-273
		M	**Grate #3573-0008**	96-274
		B, M	**Grate #3573-3000, Type L**	98-010
PEIWF	Peirce Welding & Fabricating, Inc. 170 Airport Road, P.O. Box 369 Bethel, PA 19507	K		01-190

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SECTION 605.2(a)

INLET GRATES AND FRAMES (Continued)

Steel Products Procurement Act applies.

A = Welded Steel Grates
B = Bicycle Safe Grates
C = Type H Steel Grates
D = Type D-H Steel Grates
E = Welded Steel Vane Grates
F = Welded Steel Inlet Frames
G = Welded Inlet Angles
H = Alt. Type H Steel Grates

I = 2'x4' Type S Top
J = Cast Iron Junction Box & Frames
K = Steel Junction Box & Frames
L = ◆ Cast Iron Grates & Frames, HS20 loading
◆**(Use Outs ide of Travel Lanes Only)**
M = Cast Iron Grates & Frames HS25 loading
N = **(ADA)** Acceptable (Americans for Disabilities Act)
O = Trash Rack/Anti-Vortex Device

			REF. NO.
QUIRN	Quirin, E. A. Wade Road St. Clair, PA 17970	A, B, D, H	----------
SYRAC	Syracuse Castings Sales Corp. Marcellus St., Syracuse Facility P. O. Box 1821, 6177 South Bay Rd. Cicero, NY 13039	A, B, C, D, E, F & G **Type C, M & S #4 rebar cages**	----------
TDFSV	TDF Services, Inc. P. O. Box 111 Oakmont, PA 15139	A, B, F	00-005
UTILT	Utility Metals P.O. Box 9054 Louisville, KY 40209-0054	K	92-233

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SECTION 605.2(b)
MANHOLE FRAMES AND COVERS
Steel Products Procurement Act applies.

			Ref. No.
EASTJ	East Jordan Iron Works P. O. Box 439 East Jordan, MI 49727	Manhole Frames & Covers	86-011
NEENA	Neenah Foundry Co. Box 729 2121 Brooks Ave. Neenah, WI 54956	Manhole Frames & Covers	86-100
QUIRN	Quirin, E. A. Wade Road St. Clair, PA 1790	Manhole Frames & Covers	----------

SECTION 605.2(d)
POLYETHYLENE STAY IN PLACE ENDWALL FORM
APPROVED PRODUCT ALTERNATIVE FOR ENDWALLS

The Listing Below Contains an **Approved Product Alternative** to **Section 605.2(d)**, for cast in place endwalls and precast endwalls as listed under **Section 714**.
The Alternate endwall system is **Provisionally Approved** under the Special Provision listed below:
"Hartman Endwall System" Provisional Special Provision S00(PD06052A).

❶ **Provisional Approval : BOCM must be contacted prior to use. (717) 787-3137**

			Ref. No.
STEP2	Step 2 Company 10010 Aurora-Hudson Road Streetsboro, OH 44241	❶ Hartman EW System	01-160

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SECTION 606.2
MANHOLE AND INLET EXTENSIONS
Steel Products Procurement Act applies.

			Ref. No.
AMEHP	American Highway Prod. Ltd. P.O. Box 640 Bolivar, OH 44612-0640	Manhole Extension (Steel)	79-010
ANDRE	Andrews Metal Prod., Inc. Division of East Jordan Iron Works 745 Andrews Road Youngstown, OH 44505	Manhole Extension (Steel) Inlet Extension (Steel)	88-341 Ltr. 07/03/95
BEHNE	Behney Fabricators & Welding, Inc. 517 King Street. Lebanon, PA 17042	Inlet Extension (Steel)	---------
JERDW	Jerdon Welding 409 Wiconisco Street Wiconisco, PA 17097	Manhole Extension (Steel) Inlet Extension (Steel)	01-041
KENGC	Kenglo Construction Supply Co., Inc. P. O. Box 54, Route 403 South Strongstown, PA 15957	Inlet Extension (Steel)	98-039
LAURE	Laurel Steel P.O. Box 44 Scottsdale, PA 15683	Inlet Extension (Steel)	87-416
LEBVE	Lebanon Valley Ent., Inc. 410 East Lincoln Ave. Myerstown, PA 17067	Inlet Extension (Steel)	Ltr 10/30/95
MORGA	Morgan Welding RD. #1, Box 172F Myerstown, PA 17067	Manhole Extension (Steel) Inlet Extension (Steel)	---------
NATUP	National Utility Prod. Co. 29355 Ranney Parkway Cleveland, OH 44145	Manhole Extension (Cast Iron)	89-203

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SECTION 606.2
MANHOLE AND INLET EXTENSIONS (Continued)

Steel Products Procurement Act applies.

			Ref. No.
ROSST	Ross Technology Corporation 104 North Maple Ave. P. O. Box 646 Leola, PA 17540	Inlet Extension (Steel) Manhole Extension (Steel)	82-083 82-084
THOMA	Thomas, J., Ltd. 300 Richardson Drive Lancaster, PA 17603	Catch Basin Manhole Extension (Steel)	82-100 82-101

SECTION 606.2 APPROVED PRODUCT ALTERNATIVES

The Listing Below Contains **APPROVED PRODUCT ALTERNATIVES** To **SECTION 606.2**, for Manhole Extensions"
The Alternate Manhole Extension Designs are **Provisionally Approved** under the Special Provisions listed below:

"HIGH DENSITY POLYETHYLENE MANHOLE EXTENSIONS" Special Provision S00(PD06051A).
"RECYCLED RUBBER MANHOLE EXTENSIONS" Special Provision S00(PD06061A).

❶ **Provisional Approval : BCM must be contacted prior to use. (717) 787-3137**

			Ref. No.
GNRTE	GNR Technologies, Inc. 990 Upton St., LaSalle Quebec, Canada H8R 2T9	❶ Recycled Rubber Grade Adjustment Ring	99-154
LADTC	Ladtech, Inc. 244 Woodridge Lane Lino Lakes, MN 55014	❶ HDPE Grade Adjustment Ring	99-008

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SECTION 605.2(c)
MANHOLE STEPS

			REF. NO.
ASTEP	American Step Co., Inc. 830 East Broadway Griffin, GA 30223	Model #'s ML-10, 11 & 13, SML-13, LML-11 & 13, I-11 & 13, MSN-10 & 13 Model #'s LML-11 NCR & 13 NCR, ML-10 NCR & 13 NCR, I -11 NCR SML-13 NCR & ML-11 NCR	96-095 98-093A 98-093B
BOWCN	Bowco Ind., Inc 5486 S.E. International Way Portland, OR 97222	Bowco Manhole step Model #93810 (PP coated, orange) Bowco #93813 & 93813-TL	88-242 93-059
LANEC	Lane International Corp. 18067 S.W. lower Boones Ferry Rd. P. O. Box 925 Tualatin, OR 97062	10" Model P-10938 14" Model P-14850	92-026 92-026
EASCA	EASCO Corp. Metcalf Street Winton, NC 27986	Aluminium step model F14-9	97-166
MAIND	M A Ind., Inc. P. O. Box 2322 Peachtree City, GA 30269	Plastic Coated Manhole Steps	----------
PAINS	Pennsylvania Insert Corp. P. O. Box 199 Bridge Street Spring City, PA 19475	10-R & S, 11-R & S, 13-R & S Manhole steps	93-246

SECTION 605.2(d)
Other Materials: Bituminous Paint (Fed Spec. TT-V-51F)

			REF. NO.
PRUET	Pruett-Schaffer Chem. Co. P. O. Box 4350 Pittsburgh, PA 15204	#13344	90-019

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SECTION 610.2(a)3
CORRUGATED POLYETHYLENE PIPE
Perforated 4" to 15"

			REF. NO.
ADS-0	Advanced Drainage Sys., Inc.	4" & 6", Type CP	80-051
	4640 Trueman Blvd., P. O. Box 3000	8", 10", 12", & 15", Type CP	81-112
	Hilliard, OH 43026	12" Type SP (ADS N-12)	95-304
	Other plants:		
ADS-1	Muncy, PA 17756		
ADS-2	Ludlow, MA 01056		
ADS-3	Wooster, OH 44691		
ADS-4	Buena Vista, VA 24416		
ADS-5	Wilkes Barre, PA		
BAUGH	Baughman Tile Co.	4", 6", 8", 10", 12", & 15", Type CP	00-041
	8516 Township Rd. #137	4", 6", 8", 10", 12", & 15", Type SP	00-042
	Paulding, OH 45879		
CERVE	Cervell Drainage Prod., Inc.	4" and 6"	92-323
	5232 Tod Ave.	8"	94-210
	Lordstown, OH 44481		
DRAPR	Drainage Products, Inc.	4", 10", & 12", Type CP	00-125
	Main Street, Box 61	8", 10", 12" & 15", Type SP	00-125
	Haviland, OH 45851	6", Type CP	01-167
LANE6	Lane Enterprises, Inc.	6", 8", 10", 12", & 15", Type SP	97-182
	34 Strohm Road		
	Shippensburg, PA 17257		
HANC0	Hancor, Inc.	4", 6" & 8"	85-064
	401 Olive Street	4"	87-015
	Findlay OH 45839	10", 12" & 15" Type CP	95-284
	Other Plant:		
HANC1	Waverly, NY		
SPRPL	Springfield Plastics, Inc.	4" & 6" PE Type SP	96-077
	Rural Route 1, Box 171		
	Auburn, IL 62615		

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SECTION 610.2(a)4
POLYVINYL CHLORIDE PIPE
Perforated 4" to 15"

			REF. NO.
CON00	Contech Constr. Prod., Inc. 1001 Grove St. Middletown, OH 45044		
CON01	Montgomery, AL	4" perforated 4" circular perforated 6" circular perforated	86-181A 87-196 87-197
NP&P0	National Pipe & Plastics, Inc. 3421 Old Vestal Road Vestal, NY 13850	4", 6", 8", 10", 12", 15" SDR 35 perforated PVC pipe	91-266A-F

SECTION 610.2(a)5
ACRYLONITRILE-BUTADIENE STYRENE (ABS) PIPE

			REF. NO.
CON00	Contech Constr. Prod., Inc. 1001 Grove St. Middletown, OH 45044		
CON01	Montgomery, AL	4" Perforated 6" Perforated	86-180A 86-180C

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SECTION 610.2(a)7 & 8
CORRUGATED STEEL PIPE, METALLIC COATED AND CORRUGATED ALUMINUM ALLOY PIPE

			REF. NO.
CON00	Contech Constr. Prod. 1001 Grove Street Middletown, OH 45044 **Plants:** Greencastle ,PA New Castle, DE Palmer, MA	(a)7 & (a)8 Perforated 6", 8", & 10"	91-327
CULVE	Culverts, Inc. P.O. Box 271, Pittsburgh Ave. Coraopolis, PA 15108	(a)7 & (a)8	----------
LANE2	Lane Enterprises Box 164, Route 56 West Bedford, PA 15522	(a)7 & (a)8	----------
WCIST	WCI Steel 1040 Pine Avenue S.E. Warren, OH 44483-6528	(a)8	----------

SECTION 610.2(a)9
PREFABRICATED PAVEMENT BASE DRAINS

				REF. NO.
ADS-0	Advanced Drainage Sys. 4640 Trueman Blvd. Hilliard, OH 43026		(18" only)	91-267B
AMEWD	American Wick Drain Corp. 1209 Airport Road Monroe, NC 28110	Akwadrain	(12" & 18")	01-117
CON00	Contech Constr. Prod. 1001 Grove Street Middletown, OH 45044	Stripdrain 80 Stripdrain 100	(12" & 18") (12" & 18")	91-129 88-324

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SECTION 615.2
SUBSURFACE DRAIN OUTLETS
Solid 4" to 15" size

	✪ Meets 70 PSI @ 5% , English or 483 kPa @ 5%, Metric		REF. NO.
ADS-0	Advanced Drainage Sys, Inc 4640 Trueman Blvd. P. O. Box 3000 Hilliard, OH 43026	✪ 6" N-12 (LF Grade) PE pipe, Type S ✪ 4" (102mm) N-12 (LF Grade) PE Type S	97-040 97-039
	Other Plants:		
ADS-1	Muncy, PA		
ADS-2	Ludlow, MA		
ADS-3	Wooster, OH		
ADS-4	Buena Vista, VA		
BAUGH	Baughman Tile Co. 8516 Township Rd. #137 Paulding, OH 45879	✪ 4" thru 15", PE pipe, Type S **(Smoothline)**	00-043
HANC0	Hancor, Inc. 401 Olive Street Findlay OH 45840		
HANC1	Waverly, NY Plant	✪ 4", 6" PE Hi-Q	99-045
LANE6	Lane Enterprises, Inc. 34 Strohm Road Shippensburg, PA 17257	✪ 6" Type S HDPE	96-190
SPRPL	Springfield Plastics, Inc. Rural Route 1, Box 171 Auburn, IL 62615	✪ 4" & 6" Type S, PE Pipe	96-077

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SECTION 616.2
END SECTIONS AND SLOPE PIPE FITTINGS

Note #1: Approved Steel & Aluminum Pipe Manufacturers listed under Sections 601.2(a)4b and 601.2(a)4c may also provide End Sections & Slope Pipe Fittings.

Note #2: For approved Precast Concrete End Sections, See Section 601.2(a)3a

			REF. NO.
J&J-D	J & J Drainage Products, Inc. P. O. Box 829 Hutchinson, KS 67504-0829	Steel Culvert End Sections only Aluminium End Sections only	90-262 90-263

SECTION 617.2
SLOTTED DRAIN

			REF. NO.
ABT01	ABT Incorp. 259 Murdock Road Troutman, NC 28166	Polydrain	97-129
CON00	Contech Constr. Prod., Inc. 1001 Grove St. Middletown, OH 45044		
CON12	Greencastle, PA		
LANE3	Lane Enterprises, Inc. P. O. Box 345, State Rt. 551 Pulaski, PA 16143		80-017
STRWL	Strongwell Company 3621 Industrial Park Drive Lenoir City, TN 37771	Polycast	99-193

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SECTION 619.2
Permanent Impact Attenuating Devices (DM-2, Chapter 12)

A. Type II Systems (Gating Flared Terminals)

1. SRT-350
2. FLEAT 350
3. REGENT

B. Type III Systems (Gating Parallel Terminals)

1. ET-2000
2. SKT-350
3. BEAT-SSCC
4. ET-PLUS with Steel Yielding Terminal Post
5. ET-PLUS
6. ET-2000 with Steel Yielding Terminal Post

C. Type IV Systems (Gating, Two-Way Traffic)

1. BREAKMASTER
2. CAT
3. ADIEM
4. FLEAT-MT

D. Type V Systems (Non-Gating, Two-Way Traffic)

Standard

1.(a) QUADGUARD
1.(b)1 TRACC **1.(b)2** WIDETRACC
1.(c) TAU-II™

Reusable

2.(a) QUADGUARD ELITE
2.(b) REACT 350
2.(c) REACT 350 (60 inch)

Low Maintenance

3.(a) QUADGUARD LMC

E. Type VI Systems (Sand Barrels)

1. ENERGITE III MODULE
2. FITCH INERTIAL
3. TRAFFIX

F. Miscellaneous Barrier Systems

1. THE BARRIERGATE
2. THE DRAGNET
3. ABSORB 350

	MANUFACTURERS	TYPE	REF. NO.
BARRS	Barrier Systems, Inc. 180 River Road Rio Vista, CA 94571	F 3 D 1(c)	01-066 02-039
ENERG	Energy Absorption Sys., Inc. 1 East Wacker Dr. Chicago, IL 60601-2076	C 1 D 1(a) D 3(a) D 2(a) F 1 A 3 D 2(c) D 2(b) E 1 E 2	89-306& 97-168 96-167& 98-008 98-060 99-086 93-222 99-178 01-169 95-158& 98-159

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SECTION 619.2
Permanent Impact Attenuation Devices (DM-2, Chapter 12)

	MANUFACTURERS	TYPE	REF. NO.
ENTWH	Entwistle Co. Bigelow Street Hudson, MA 01749	F 2	95-178
RDSYS	Road Sysyems, Inc. 1507 East 4th Street Big Springs, Texas 79720	B 2 A 2 B 3 C 4	98-035 98-065 03-118 03-119
TRIN0	Trinity Industries Syro Steel Division 1170 North State Street Girard, OH 44420	C 3 A 1 B 1 C 2 D 1(b)1 D 1(b)2 B 4 B 5 B 6	92-246 96-056 90-164 89-060 99-028 99-028M 03-092 03-092B 03-092C
TRFXD	Traffix Devices, Inc. 220 Calle Pintoresco San Clemente, CA 92672	E 3	98-143

Monday, April 26, 2004

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SECTION 624.2(c)
Packaged Dry Cement

			REF. NO.
CTS-1	CTS Cement Mfg., Co. 11065 Knott Ave., Suite A Cypress, CA 90630	Rapid Set Concrete Mix	93-092

SECTION 626.2
GABIONS
Steel Products Procurement Act applies.

			REF. NO.
CESHC	C. E. Shepard Company 2221 Canada Dry St. Houston, TX 77023	Polyvinyl Chloride Coated Galvanized Wire	97-190 97-190
LANE3	Lane Enterprises, Inc. P. O. Box 345 Pulaski, PA 16143	Galvanized Wire Polyvinyl Chloride Coated	88-014 00-273
MACCA	MacCaferri Gabions, Inc. 10303 Governor Lane Blvd. Williamsport, MD 21795-3116	Galvanized Wire Polyvinyl Chloride Coated	68-012 68-012
TERR0 **TERR1**	Terra Aqua Gabions 5401 Longley Lane P.O. Box 7546 Reno, NV 89511 **Plant:** Ft. Smith, AR	Polyvinyl Chloride Coated Galvanized Wire	87-195A 87-195B
ULTGB	Ultimate Gabions, Inc. 500 Wood Street P.O. Box 1002 Bristol, R.I. 02809	Galvanized Wire	98-026

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SECTION 636.2(c)
DRAWN POLYESTER FIBERS

❶ **Filler for Bituminous Concrete Curb Mixes**
❷ **For Bituminous Wearing FJ-4, (Publication 418, Section 423)**
(0.125% by wt. mix, 0.2% additional AC)
❸ **For Bituminous Stockpile Patching Material Bulletin 27, Section 486**

				REF. NO.
FIBAD	Fiber-Ad Corp. 2619 West Blvd. Charlotte, NC 28224	❶, ❷, ❸	(A-1 Polyester)	91-275
GFC-M	GFC Materials Corp. 62B Pennsylvania Ave. Apalachin, NY 13732	❶, ❷, ❸	(Type 402 Polyester)	90-344B
KAPEJ	Kapejo, Inc. 35 Southgate Blvd. P. O. Box 649 New Castle, DE 19720-0649	❶, ❷, ❸	(Bonifiber B)	84-014

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SECTION 664
MODULAR ARCHITECTURAL BLOCK SYSTEM

◆ **Note: Companies listed below are licensors only and not approved manufacturers.**

◆ **Allen Block Corporation 94-268**
◆ **Anchor Wall Systems 95-265**
◆ **Risi Stone Systems 95-144**
◆ **Versa-Lok Company 02-116**

	PRECASTERS	TYPE	REF. NO.
DOREN	Doren, Inc. R.D. #2, Route 18, P.O. Box 55 Wampum, PA 16157	Versa-Lok	02-116
FADD1	Faddis Concrete Products 3515 Kings Highway Dowingtown, PA 19335	Dura Hold II	99-190
FIZZ2	Fizzano Brothers Concrete 201 South Phoenixville Pike Malvern, PA 19355	Allen Block	94-268
LANDS	Landis Block Co. County Line @ Chestnut St. P. O. Box 415 Souderton, PA 18964	Anchor Diamond	95-265
MIDAP	Mid Atlantic Precast, Inc. 401 Railroad Street Monongahela, PA 15063	Dura Hold II	95-144
YORKB	York Building Products, Inc. 1020 North Hartley St. York, Pa 17404	Keystone Standard Keystone Compact	00-186 00-187

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SECTION 678
PERMANENT BARRICADES:

678.2(a)1, PRESSURE TREATED WOOD POSTS

			REF. NO.
BURPB	Burke-Parsons-Bowlby Corp. 3210 Parkersburg Road Reedy, WV 25270	Treated Wood Posts	97-067
MIDWS	Midwestern Wholesalers, Inc 4832 Plank Rd., Box 809 Norwalk, OH 44857	Treated Wood Posts	95-271
TAYLR	Taylor-Ramsey Corp. P. O. Box 11888 Lynchburg, VA 24506	Treated Wood Posts	85-090

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SECTION 679.2(e): ASTM 928 and PTM 633
RAPID HARDENING CONCRETE PATCHING MATERIALS
Part A: Cementitious, Non-Metalic, Non-Staining

			REF. NO.
ADMXT	Admixtures, Inc. 34 East Lancaster Ave. P. O. Box 125 Shillington, PA 19607	BC Quick Patch #2	69-016
BONSA	Bonsal America 8201 Arrowridge Blvd. Charlotte, NC 28273 Merger: American Stone **(AMESX) &** W.R. Bonsal Co. **(BONSA)**	Swift Set 120 IFSCEM 110 Bonsal F-77 Constr. Grout Power Set 120 Power Set 120A (Prepackaged with Aggregate) IFSCEM 115 (Prepackaged with Aggregate)	84-084 84-085 88-044 02-134
CEMPR	Cempro 298 Keytone Dr. P. O. Box 21007 Lehigh Valley, PA 18002-1007	Tyberpatch HS	93-075
CGM-N	CGM Inc. 1463 Ford Road Bensalem, PA 19020	CGM Highway Patch	87-082
CHEMM	Chem Masters 300 Edwards St. Madison, OH 44057	Chemspeed 65	95-046
CHMRX	ChemRex, Inc. / Sonneborn 889 Valley Park Drive Shakopee, MN 55379	ThoRoc 10-60 Rapid Mortar Road Patch II Thorite (mixed with water only) Set Instant Concrete Emaco T415 Repair Mortar	86-028 86-070 77-024 76-049 93-148
DAYT1	Dayton Superior 4226 Kansas Avenue Kansas City, KS 66106	Perma Patch HD-50	89-144 85-185
EUCLD	Euclid Chem. Co. 19218 Redwood Rd. Cleveland, OH 44110	Euco-Speed	95-148

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SECTION 679.2(e): ASTM 928 and PTM 633
RAPID HARDENING CONCRETE PATCHING MATERIALS
Part A: Cementitious, Non-Metalic, Non-Staining

			REF. NO.
5STAR	Five Star Products, Inc. 425 Stillson Road Fairfield, CT 06430	5 Star Highway patch 5 Star Structural Concrete 5 Star Structural Concrete V/O	79-039 87-002 90-214
GILLI	Gill Industries, Inc. 650 MacCorkle Ave., S.W. St. Albans, WV 25177	Gill 33B & P Superbond	72-050
LAFR14	Lafarge North America QPR Division, 200 Deerfield Point 12735 Morris Road Extension Suite 200, Alpharetta, GA 30004	QPR 2000 Concrete Patch	94-201
L&MCC	L&M Construction Chemicals, Inc. 14851 Calhoun Road Omaha, NE 68152	Durapatch Hiway Crystex	84-217 76-032
QUIKR	The Quikrete Companies One Securities Center 3490 Piedmont Road N.E.,Suite 1300 Atlanta, GA 30305	Rapid Road Repair FastSet™ Non-Shrink Grout FastSet™ Dot Mix Commercial Grade FastSet	84-086 00-292 03-004 00-288
SIKA1 **SIKA2**	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302 Lyndhurst, NJ	Sikatop III Sika Set Road Patch	78-043
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Speed Crete 2028 Speed Crete Green Line Express repair	96-223 91-010 03-132
USGY1	U. S. Gypsum Co. Industrial Gypsum Division P.O. Box 803871 Chicago, IL 60680-3871	Duracal Duracal-S	88-020 94-009

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SECTION 679.2(e): ASTM 928 and PTM 633
RAPID HARDENING CONCRETE PATCHING MATERIALS
Part B: Magnesium Phosphate Cement based Materials

			REF. NO.
BONSA	Bonsal America 8201 Arrowridge Blvd. Charlotte, NC 28273	Magna 100	85-214
CHMRX	ChemRex, Inc. 889 Valley Park Drive Shakopee, MN 55379	Set 45 regular Set 45 Hot weather	74-016
EUCLD	Euclid Chem. Co 19218 Redwood Road Cleveland, OH 44110-2799	Euco-Speed M.P.	88-354
GRAC0	W. R. Grace Co. 62 Whittemore Ave. Cambridge, MA 02140-1692	Darex 240	74-005
CHMRX	ChemRex, Inc. 889 Valley Park Drive Shakopee, MN 55379	Emaco 2020	83-144
HILT-	Hilti, Inc. 5400 South 122nd East Ave. P. O. Box 21148 Tulsa, OK 74121	RM 698 Epoxy Patch	88-017
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Duracryl Dural 317 Flexolith	80-072 84-095 80-030
TRASA	Transpo Ind., Inc. 20 Jones Street New Rochelle, NY 10801 Plant: Berwick, PA	T17 Polymer Concrete	79-060

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Pennsylvania Department of Transportation
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SECTION 680.2(b)
WATERPROOFING
Adhesive Backed Preformed Membrane Sheet

1.) Bridge Deck Surfaces
- **(a)** Rubberized Asphalt
- **(b)** Modified Bitumen

2.) Surfaces Other Than Bridge Decks
- **(a)** Rubberized Asphalt
- **(b)** Modified Bitumen

	Company	Type	Product	Ref. No.
MEDW1	Meadows, W. R., Inc. 2100 Monroe St. York, PA 17404	**1.(a)** **2.(b)**	SealTight Mel-Dek SealTight Mel-Rol	93-275 93-274
POLYG	Polyguard Products, Inc. 3801 South Business 45 Ennis, TX 75119	**1.(a)**	Polyguard 665	00-317
ROYST	Royston Labs, Inc. 128 First Street Pittsburgh, PA 15238-3223	**1.(a)** **1.(a)** **1.(a)** **2.(a)**	10AN Easy Pave 10A-65 Bridge Deck Membrane 10A-65 Easy Pave 108-ARN	93-185 00-018 00-019 01-036

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SECTION 696.2
TEMPORY IMPACT ATTENUATION DEVICES
(DM-2, Chapter 12)

C. Type IV Systems
1. ADIEM II

D. Type V Systems
1. QUADGUARD CZ
2. REACT 350
3. TRACC
4. TAU-II™

E. Type VI Systems (Sand Barrels)
1. ENERGITE III MODULE
2. FITCH INERTIAL
3. TRAFFIX

F. Miscellaneous Barrier Systems
3. ABSORB 350

	MANUFACTURERS	TYPE	REF. NO.
BARRS	Barrier Systems, Inc. 180 River Road Rio Vista, CA 94571	F 3 D 4	01-066 02-039
ENERG	Energy Absorption Sys., Inc. 1 East Wacker Dr. Chicago, IL 60601 Other Plant: Spincast Plastics, South Bend, IN	D. 1 D. 2 E. 1 E. 2	98-027 95-158
TRFXD	Traffix Devices, Inc. 220 Calle Pintoresco San Clemente, CA 92672	E. 3	98-143
TRIN0	Trinity Industries Syro Steel Division 1170 North State Street Girard, OH 44420	C. 1 D. 3	92-246 99-028

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SECTION 701
CEMENT

			REF. NO.
ARMST	Armstrong Cement & Supply 100 Clearfield Road Cabot, PA 16023-9521	Type I, II, & III Type V	---------- 00-010
CEMX0	Cemex 1200 Smith Street, Suite 2400 Houston, TX 77002		
	Terminal:		
CEMX1	Kosmos @ Neville Island	Type I, II, & III	---------
	Plants:	Type 1-S	93-040
CEMX2	Wampum, PA	Type I, II, III, & V	90-136
CEMX3	Knoxville, TN	Type I, II, & III	89-227
CEMX4	Louisville, KY	Type I, II, & III	01-056
ESS-1	Essroc Materials Inc. Italcementi Group 3251 Bath Pike Nazareth, PA 18064		
	Plants:		
ESS-3	Martinsburg, WV	Type I, II, III, & *1-P	*95-072
ESS-4	Middlebranch, OH	Type I, II, & III	----------
ESS-5	Frederick, MD	Type I, II, & III	----------
ESS-6	Bessemer, PA	Type I, II, & III	----------
ESS-7	Nazareth, PA	Type I, II, & III	97-187
ESS-8	Rochester, NY	Type I, II, & III	----------
ESS-9	Devnya, Bulgaria	◆Type I	00-004
	◆ **Manufactured for Essroc by Devnya Cement Co.**		
	Terminals:		
ESS10	Leetsdale, PA		90-092

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SECTION 701
CEMENT (continued)

			REF. NO.
FEDW0	Federal White Cement, Inc. P. O. Box 548 Woodstock, Ontario, CANADA, N4S 7Y5 Terminal:	Type I	97-082
FEDW1	Northampton, PA	Type I	97-140
GFLH0	Glens Falls Lehigh Cement Co. P. O. Box 440 313 Warren Street Glen Falls, NY 12801 Plant:		
GFLH0	Glens Falls, NY Terminal:	Type I, II, & III	----------
GFLH1	Cementon, NY	Type I, II, & III	93-098
HERCU	Hercules Cement Company Stockertown, PA 18083	Type I, II, & III	---------
HOLCM	Holcim, Inc. 4996 Freedom Way Weirton, WV 26062 Plant: Dundee, MI	Type I, II, & III	----------
KEYSP	Keystone Portland Cement Co. Route 329, P. O. Box A Bath, PA 18014	Type I, II, & III	----------

SECTION 701
CEMENT (continued)

			REF. NO.
LAFR0	Lafarge North America, Northeast Region 606 Cathcart St., Suite 800 Montreal, Quebec, Canada H3B 1L7		
	Plants:		
LAFR3	Bath, Ontario	Type I, II, & III	----------
LAFR4	Woodstock, Ontario	Type I, II, & III	----------
LAFR6	Alpena, MI	Type I	98-194
LAFR7	Whitehall, PA	Type I, II, III, 1P & 1S	01-095
LAFR8	Joppa, IL	Type I, II, & III	91-153
LAFR10	*Ravena, NY	Type I, II, & III	----------
	Terminals:		
LAFR1	Buffalo, NY	Type I, II, & III	----------
LAFR2	Cleveland, OH	Type I, II, & III	----------
LAFR5	Oswego, NY		----------
LAFR9	Belpre, OH		93-402
LEH-0	Lehigh Portland Cement Co. 7660 Imperial Way Allentown, PA 18195		
	Plants:		
LEH-1	Union Bridge, MD	Type I, II, & III	----------
LEH-2	York, PA	Type I white	89-253
		Type III white	89-301
LEH-3	Evansville, PA	Type I, II, & III	----------
		Type I-S	99-152
		Type I-S(30%)	03-141
	Terminals:		
LEH-4	Alliquippa, PA	Type I, II, & III	03-110
RIVER	Riverside Construction Materials, Inc. 355 Newbold Rd. Fairless Hills, PA 19030		
	Plant:		
	Thailand * Manufactured by "The Siam Cement Co."	Type I, II, & III *	98-195

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SECTION 701
CEMENT (continued)

			REF. NO.
SLCC0	St. Lawerence Cement Co. L.L.C. US Division 3 Columbia circle Albany, NY 12203		
	Plants:		
SLCC2	Buffalo, NY	Type I, II, & III	---------
SLCC3	Enzoatequi, Venezuela	Type I, II, & III **	99-029
	** Manufactured by VenCemos-Pertigalete		
SLCC4	Hagerstown, MD	Type I, II, & III	90-148
SLCC5	Barranquilla, Columbia	Type I ***	99-033
	*** Manufactured by Cementos Del Caribe		
SLCC6	Davau City, Philippines	Type I, II, & III ****	00-203
	**** Manufactured by Union Cement Co.		
SLCC7	Catskill, NY	Type I, II, & III	92-360
SLCC8	Joliette, Quebec	Type I, II, & III	94-064
SLCC9	Mississauga, Ontario	Type I, II, & III	----------
	Terminal:		
SLCC1	Tarentum, PA		---------
STMC0	St. Marys Cement Great Lakes Region 55 Industrial St., 4th Floor Toronto, Ontario Canada M4G 3W9		
	Plants:		
STMC1	St. Marys, Ontario	Type I, II, & III	88-318
STMC2	Bowmanville, Ontario	Type I & III	97-097
	Terminal:		
STMC3	Buffalo, NY	Type I, II, & III	99-195

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SECTION 702
BITUMINOUS MATERIALS

PG-Binder Grades not listed in Bulletin # 25 (Specifications for Bituminous Materials) are Restricted Use Non-Standard Grades. MTD must be contacted prior to use. (717) 787-5229

PG = PG Binder **EM = Emulsion** **◆ = AASHTO (Latest Revision)**
CB = Cutback **AC = Asphalt Cement**

CB Type MC-30 MC-70 MC-400 MC-800 RC-70 RC-250 RC-800 WP-1

EM Type ❶ RS-1 (E-1A), CRS-1 (E-1C), RS-2 (E-2), CRS-2 (E-3), MS-2 (E-4), CMS-2 (E-5), SS-1 (E-6A), CSS-1 (E-6C), SS-1h (E-8A), CSS-1h (E-8C), HFMS-2h (E-11-60), HFMS-2 (E-11-90), HFMS-2S (E-11-150), E-10, E-12, AE-T

EM Type ❷ RS-2PM (E-2M), CRS-2PM (E-3M) **EM Type ❸** CSS-1hPM (E-8CPM)

EM Type ❹ AE-P **EM Type ❺** E-1 Primer **EM Type ❻** EDP **EM Type ❼** UTFCEM

COMPANY		PG	CB	EM	AC
ASPPS	Asphalt Paving Systems 8th St. & Reading Ave. Hammonton, NJ 08037			❶, ❸	
ATLMC	Atlas Minerals & Chemicals, Inc. 1227 Valley Road P. O. Box 38 Mertztown, PA 19539-0038		All		M-238 ◆ WM-1 WA-1
BITP0	Bituminous Products Co. 352 George Hardy Drive Toledo, OH 43605				
	Refineries :				
BITP1	Toledo, OH	76-22			
	Terminals :				
BITP2	Cleveland, OH	76-22			

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	COMPANY	PG	CB	EM	AC
BLADE	Blades Constr. Products Corp. P.O. Box 572, Rt. 19 North Belmont, NY 14813			❶	
BPPG0	BP Mail Station J-7, Bldg. 800 150 West Warrenville Road Naperville, IL 60563-8460				
BPPG1	**Terminals :** Cleveland, OH	58-28 64-22 52-28			
BPPG2	**Refineries :** Whiting, IN	58-28 64-22			
COA-0	Central Oil Asphalt 100 Darrow Rd. Akron, OH 44305			❶, ❷	
COA-1	Baltimore, MD			❶, ❷	
CHEV0	Chevron USA, Inc 1200 State St. Perth Amboy, NJ 08861				
	Refineries :				
CHEV1	Perth Amboy, NJ	58-28 64-22	All		
	Terminals :				
CHEV2	Baltimore, MD	64-22	All		
CHEV3	Maritank Phila.	64-22			

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	COMPANY	PG	CB	EM	AC
CITG0	Citgo Asphalt Refining Co. 4 Paradise Road Paulsboro, NJ 08066-1740				
	Refineries :				
CITG1	Paulsboro, NJ	64-22 76-22			
CITG4	Citgo Asphalt Refining P. O. Box 1881 Savannah, GA 31498				
	Terminals :				
CITG2	Port of Albany Albany, NY	64-22 58-28			
CITG3	IMTT Bayonne, NJ	64-22			
CITG5	ST Services Baltimore, MD	64-22 58-28			
CITG7	Stolthaven Perth Amboy, NJ	64-22 52-28			
COOPC	Coopers Creek Chemical Corp. 884 River Road West Conshohocken, PA 19428-2699		All		

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	COMPANY	PG	CB	EM	AC
DOSK0	Dosch-King Emulsions 16 Troy Hill Road Whippany, NJ 07981			❶, ❷	
DOSK1	Andreas, PA			❶, ❷	
DOSK2	Whippany, NJ			❸	
JMGEN	JMG Enterprises, Inc. 10027 Route 403 Hwy South Seward, PA 15954			❹	
KMC01	Koch Materials Co. 1194 Zinns Quarry Road York, PA 17404		All	❶, ❷, ❸, ❹ ❼	
KMC02	Northumberland, PA		All	❶, ❷, ❸, ❹	
KMC11	Reading, PA			❶, ❷, ❸, ❹	
KMC15	Gloucester, NJ	58-28 64-22 76-22			
KMC17	Perth Amboy, NJ		All	❶, ❷, ❸, ❹	
KMC21	Baltimore, MD	58-28 64-22 76-22	All	❶, ❷, ❸, ❹	
KMC25	Heath, OH		All	❶, ❷, ❸, ❹	
KNMR1	Kinder/Morgan 702 Washington Ave. P. O. Box 253 Dravosburg, PA 15034-0253 Note: United will be storing & shipping from Kinder/Morgan's terminal	64-22	All		

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SECTION 702
BITUMINOUS MATERIALS

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	COMPANY	PG	CB	EM	AC
MARA0	Marathon Ashland Petroleum LLC 539 South Main Street Findlay, OH 45840-3295				
	Refineries				
MARA1	Catlettsburg, KY	52-28 58-28 64-22			
MARA2	Detroit, MI	52-28			
MARA3	Canton, OH	52-28 58-28 64-22			
	Terminals				
MARA4	Big Sandy @ Catlettsburg, KY				
MARA5	North Bend, OH				
MARA6	Cincinnati, OH	76-22			
MARA7	Cleveland, OH	52-28 64-22 76-22			
MARA8	Floreffe, PA	52-28 58-28 64-22 76-22 76-22	All	❶, ❷	
MARA9	Tonawanda, NY	52-28	All		
MARA10	Wellsville, OH	58-28 64-22			

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SECTION 702
BITUMINOUS MATERIALS

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CB = Cutback **AC = Asphalt Cement**

	COMPANY	PG	CB	EM	AC
MDLAC	Midland Asphalt Materials, Inc. 640 Young Street Tonawanda, NY 14151-0388			❶, ❷	
MOHWK	Mohawk Asphalt 6 Freemans Bridge Road Scotia, NY 12302			❶, ❷, ❼	
MONSE	Monsey Prod. Co. Cold Stream Road Kimberton, PA 19442		All		
NEVLC	Neville Chemical Co. Neville Island, PA 15225		SRTC Only		
NOCOE	NOCO Energy Corporation 700 Grand Island Blvd., Box 86 Tonawanda, NY 14151-0086	64-22 58-28			
PECKH	Peckham Materials Corp. Foot of Union Street Athens, NY 12015		All	❶	
PETRC	Petro Canada 11701 Sherbrooke East Montreal, Quebec Canada H1B 1C3	58-28 64-22			
PUREA	Pure Asphalt Co. 3300 West 31st Street Chicago, IL 60623				M-243 ◆

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SECTION 702
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	COMPANY	PG	CB	EM	AC
RASCH	Raschig Corp. 5000 Osborne Turnpike Rt. 5 Richmond, VA 23231			❸	
RMSAC	RMS Asphalt Emulsion, Inc. 10965 McHenry Street Meadville, PA 16335		All	❶, ❷, ❻	
RUSS0	Russell Standard Corp. 1210 Perry Highway P. O. Box 509 Mercer, PA 16137		All	❶, ❷, ❹, ❺	
RUSS1	Butler, PA		All	❶, ❷, ❹, ❺	
RUSS3	Hammaker East, LTD. Siloam Rd., Chambersburg		All	❶, ❷, ❹, ❺	
SEABD	Seaboard Asphalt Prod. Co. 3601 Fairfield Road Baltimore, MD 21226		All		
SHORE	Shore Slurry Seal, Inc. 500 N. Egg Harbor Rd. Hammonton, NJ 08037		All	❶, ❷, ❸	

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SECTION 702
BITUMINOUS MATERIALS

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	COMPANY	PG	CB	EM	AC
SHSA1	Shelly & Sands, Inc. S & S Terminal Division P. O. Box 66 Rayland, OH 49343 **Terminal:** Rayland, OH **Material shipped from Citgo Asphalt**	64-22			
SOLAR	Solar Compounds 1201 W. Blancke St Linden, NJ 07036				J-1 Only
SUIT0	Suit-Kote 1911 Lorings Crossing Road Cortland, NY 13045-5160				
SUIT1	New York Emulsions, Inc. Buffalo, NY		All	❶, ❷, ❹	
SUIT2	West Seneca, NY		All	❶, ❷, ❹	
SUIT3	Cortland Asphalt Prod. Cortland, NY	76-22 64-22 52-28 58-28	All	❶, ❷, ❹, ❻	
SUIT4	Central Asphalt, Inc. Watkins Glen, NY		All	❶, ❷, ❹	
SUIT5	Jamestown, NY		All	❶, ❷, ❹	

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SECTION 702
BITUMINOUS MATERIALS

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	COMPANY	PG	CB	EM	AC
TRIGP	Trigeant Petroleum P. O. Box 1000 Westville, NJ 08093 **Formerly: (COAS0)** **Coastal Refining & Marketing, Inc.**	64-22	All		
TRUM0	Trumbull Asphalt Asphalt Technology Lab Division of Owens Corning 7800 West 59th Street Summit, IL 60501				
	Refineries				
TRUM1	Kearny, NJ	64-22			
TRUM2	Jessup, MD				M238 ◆
TRUM3	Medina, OH				M238 ◆
UNRC0	United Refining Co. P. O. Box 780 Warren, PA 16365	64-22 58-28 52-28	All		
UNRC1	Springdale Terminal 13 Mellon Street Springdale, PA 15144	64-22	All		

NOTE: The Kinder/Morgan **(KNMR1)** Terminal is being leased by United Refining Co. for storage & shipping.

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SECTION 702
BITUMINOUS MATERIALS

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	COMPANY	PG	CB	EM	AC
VALR1	Valero Refining Co. - N.J. 800 Billingsport Road Paulsboro, NJ 08066	64-22 52-28			
	Terminals:				
VALR2	Baltimore, ST Services	64-22			
VALR3	Baltimore, Bitumar USA, Inc.	64-22			
VALR4	Kearny, NJ	64-22			
VESTA	Vestal Asphalt, Inc. 209 Stage Rd. Vestal, NY 13850		All	❶, ❷, ❸, ❹	
WARMA	Warden Modified Asphalt L.P. 1210 Perry Highway P. O. Box 509 Mercer, PA 16137	76-22 SBS			
WHITR	Whitaker Roads Corp. P. O. Box 5657 Johnstown, PA 15904 **Plant:** Clearfield, PA		All	❶, ❷, ❹	
ZECH0	Ziegler Chemical Corp. 100 Jericho Quadrangle, Suite 140 Jericho, NY 11753 **Plant:** Piscataway, NJ		All		WM-1 WA-1

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SECTION 705.1
JOINT MATERIALS
EXPANSION JOINT FILLER

		Cork	Fiber	Rubber
DODGE	Dodge-Regupol, Inc. 715 Fountain Ave. Lancaster, PA 17601	CEJ 6510 93-019		
HUNTN	Hunton Fiber P.O. Box 578 Grasonville, MD 21638		Nor-Board 00-047	
JDRSC	J. D. Russell Company 4075 N. Hwy Dr., P.O. Box 36795 Tucson, AZ 85740			Reflex 00-243
MASON	Masonite Corporation Bldg. & Industrial Products Div. 1955 Powis Road West Chicago, IL 60185		Conflex Bituminous 94-217	
MEDW0	Meadows, W. R., Inc. 300 Industrial Drive P.O. Box 338 Hampshire, IL 60140-0338	Sealtight Cork	Sealtight Fibre Flex Joint 90-207	Sealtight Sponge
MONAR	Monarch Rubber Co. 3500-22 Pulaski Highway Baltimore, MD 21224			Geno 40 #1624 88-026
RTPTC	Right / Pointe Company 234 Harvestore Drive DeKalb, IL 60115		Right-Joint 97-047	
RUBAT	Rubatex Corporation 906 Adams Street Bedford, Va 24523-2168			Bondtex 930

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SECTION 705.2(b)
LONGITUDINAL CONSTRUCTION JOINT MATERIAL
TIE BOLTS

			REF. NO.
AHTC0	American Highway Tech. 2150B South Route 45-52 Kankakee, IL 60901 Division of Dayton Superior **(DAYT0)**	Hook Bolt & Coupler Wiggle Bolt & Coupler	94-066A 94-066B
BETH0	Bethlehem Steel Corp. 342 S G O Piling & Construction Spec. Bethlehem, PA 18016		----------
MIDPA	Mid-Park, Inc. 1021 Salt River Rd. Leitchfield, KY 42754	Wiggle Bolt Standard Hook	86-308 86-309
SOEBS	Southeastern Bolt & Screw Inc. 1037 16th Ave. West Birmingham, Al 35204	Standard Hook	91-118
UNIQU	Unique Industries P. O. Box 683 13488 HWY 25 North Calera, AL 35040	Tie Bolts	99-002
WADY-	Wady Ind. Inc. 510 E. Grove St. Maquoketa, IA 520600	Tie Bolt (Stationary) Wiggle Bolt (Slip Form)	90-333A 90-333B

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Monday, April 26, 2004

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SECTION 705.3
LOAD TRANSFER UNITS
Steel Products Procurement Act applies.

Manufacturers approved for 6:1 skewed and non-skewed joints unless otherwise noted with Type B coating.

	❶ Fabricator	❷ Epoxy Coater of Dowel Bars	Ref. No.
AHTC0	American Highway Tech. 2150B South Route 45-52 Kankakee, IL 60901 Division of Dayton Superior **(DAYT0)**	❶ ❷	---------- 96-160
BH&HP	Block Heavy & Highway Products Co. 4201 Montdale Drive Valparaiso, IN 46383	❷ ❶	00-343 00-344
MDSP2	Meadow Burke Prod., Div MMI Prod. RR #1, 565 Oak Ridge Road Hazelton, PA 18201	❶ ❷	---------- ----------
WADY-	Wady Ind., Inc. 510 E. Grove Maquoketa, IA 52060	❶ ❷	82-059 96-110

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SECTION 705.4(a)
JOINT SEALING MATERIALS
SILICONE RUBBER

		TYPE	REF. NO.
DOW-4	Dow Corning Corp. 126 SW 148th St., #C100-162 Burien, WA 98166-1984	888 Silicone Joint Sealent	96-002
CRAF0	Crafco, Inc. 420 N. Roosevelt Ave. Chandler, AZ 85226	Roadsaver Non-Sag Silicone	00-110
TREM2	Tremco, Inc. 3755 Green Road Beachwood, OH 44122	Spectrem 800 Low Modulus Silicone	01-123

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Monday, April 26, 2004
Pennsylvania Department of Transportation
PENNDOT

SECTION 705.4 (b) & (c)
RUBBERIZED JOINT SEALING MATERIAL

4(b) ASTM D-6690, TYPE IV 4(c) MODIFIED, ASTM D-6690, TYPE I

		TYPE	REF. NO.
CRAF0	Crafco, Inc. 420 N. Roosevelt Ave. Chandler, AZ 85226	4(b) 4(c)	99-047 99-046
CRAF2	Allentown, PA 18103		
DEERY	Deery American Corporation P. O. Box 4099 Grand Junction, CO 81502 **Formerly: Crackfiller Mfg. (CRACK)**	4(b) 4(c)	99-113 99-061
KMC01	Koch Materials Co. 1194 Zinns Quarry Road York, PA 17404	4(c) 4(b)	00-025 00-088
KMC02	Northumberland, PA		
MCASP	McAsphalt Industries Limited 8800 Sheppard Ave., East Scarborough, Ontario, CANADA, M1B 5R4	4(b) 4(c)	98-079 00-098
MEDW0	W. R. Meadows, Inc 300 Industrial Drive, P.O. Box 338 Hampshire, IL 60140-0338	4(b)	00-029
MEDW1	York, PA		
P&TPR	P & T Products, Inc. 472 Industrial Parkway Sandusky, OH 44870	4(b)	99-112
ULSCP	Ultra Seal Construction Products, Ltd. 5309 Maingate Drive Mississauga, Ontario, Canada L4W 1G6	4(b)	98-201

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SECTION 705.4(d)1.a
NEOPRENE COMPRESSION SEALS

BS = Bridge Seal **PS = Pavement Seal**

		Type	ID Code	Movement Class. ASTM Standard	REF. NO.
BROWD	Brown, D. S., Co., Inc. P. O. Box 158 300 E Cherry Street North Baltimore, OH 45872	**BS**	CA-5001	(60mm) 2.5 in	93-271
		BS	CA-6000 (6")	(70mm) 3.0 in	94-300
		BS	CV-1625	(10mm) 0.5 in	89-233
		BS	CV-2000	(10mm) 0.5 in	89-161
		BS	CV-2502	(20mm) 1.0 in	89-071
		BS	CV-3000	(20mm) 1.0 in	89-162
		BS	CV-3500	(30mm) 1.5 in	89-054
		BS	CV-4000	(30mm) 1.5 in	89-168
		BS	CV-5000	(50mm) 2.0 in	91-130
		BS	CV-6000	(60mm) 2.5 in	89-035
		BS	CV-6000-A	(60mm) 2.5 in	92-002
		BS	K-4000	(50mm) 2.0 in	93-273
		BS	V-1625	(10mm) 0.5 in	93-030
JOHRC	Johnson Rubber Company 16025 Johnson Street Middlefield, OH 44062	**PS**	WB-1000	(10mm) 0.5 in	04-032

SECTION 705.4(d)1.b
LUBRICANT ADHESIVES

		ID Code	REF. NO.
BROWD	Brown, D. S., Co., Inc. P. O. Box 158 300 E. Cherry Street North Baltimore, OH 45872-0158	Delastiseal #1516 Delastibond #1520	--------- 92-101
CHEMM	Chem Masters 300 Edward St. Madison, OH 44057	105 Lube Plus 4070	91-1281 95-100

SECTION 705.4(e)
PREFORMED CLOSED CELL POLYETHYLENE JOINT FILLER

			REF. NO.
MEDW0	W. R. Meadows, Inc. 300 Industrial Drive P.O. Box 338 Hampshire, IL 60140-0338	Ceramar 1" Ceramar 1/2", 3/4",2"	86-123-B 86-261A,B,C

SECTION 705.4(f)
PREFORMED POLYURETHENE FOAM JOINT FILLER

			REF. NO.
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Flex Lok	99-220

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SECTION 705.4(g)
ASPHALT RUBBER SEALING COMPOUND
ASTM D-5078

		REF. NO.
CRAF2	Crafco, Inc. 1680 East Race Street Allentown, PA 18103	99-074
DEERY	Deery American Corporation P. O. Box 4099 Grand Junction, CO 81502	99-060
KMC01	Koch Materials Co. 1194 Zinns Quarry Road York, PA 17404	00-166
KMC02	Northumberland, PA	
MCASP	McAsphalt Industries Limited 8800 Sheppard Ave., East Scarborough, Ontario, CANADA, M1B 5R4	00-048
P&TPR	P & T Products, Inc. 472 Industrial Parkway Sandusky, OH 44870	03-044
ULSCP	Ultra Seal Construction Products, Ltd. 5309 Maingate Drive Mississauga, Ontario, Canada L4W 1G6	98-200

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SECTION 705.5(b)
ELASTOMERIC GASKETS FOR CIRCULAR PIPE JOINTS

(b)1 = Elastomeric **(b)2 = Flex Plastic (Hydrocarbon blend)**

			REF. NO.
BIDC-	Bidco Sealants, Inc P. O. Box M Park Hills, MO 63601	C-56 Preformed Joint Sealent (b)2	90-206
CONSE	Concrete Sealants 8917 S. Palmer Rd. P.O. Box 176 New Carlisle, OH 45344	Conseal CS-102 Conseal CS-202	84-140 84-140A
CUSTM	Custom Rubber Extrusions 100 Romito Street Ravenna, OH 44266	Neoprene & Isoprene Gaskets (b)1	96-019
FORSH	Forsheda Pipe Seal Corp. 2200 S. McDuffie St. Anderson, SC 29624	Forsheda F-114 Forsheda F-138 (Prelub. Manhole Joint Seal) (b)1	90-238A 90-237
HAMLT	Hamilton Kent 77 Carlingview Drive Etobicoke, Ontario M9W 5E6 Canada	Tylox Superseal Gasket (b)1 Tylox (O-Rings) (b)1 Kent Seal #2	97-192 91-1330 76-074
HAMRC	Hail Mary Rubber Co., Inc. P.O. Box 236 Warminster, PA 18974	Rubberman O-Ring Gasket (b)1 Star Seal (b)1	97-072 97-056
RU-VA	Ru Van Inc. 1175 Diamond Avenue Evangville, IN 47711	RU-30 Butyl Sealent (b)2	90-042

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SECTION 705.5(c)2
POLYVINYL CHLORIDE WATERSTOP

			REF. NO.
GREES	Greenstreak Plastics Prod. 3400 Tree Court, Industrial Park Box 7139 St. Louis, MO 63177	Model 701, 703, 705, 709, 748, & 698 (All Models)	----------
MEDW0	Meadows, W. R., Inc 300 Industrial Drive, P.O. Box 338 Hampshire, IL 60140-0338	Type 6180-D Sealtight 6316 Sealtight Duo-PVC	91-364 93-196 91-364
TAMMS	Tamms Industries, Co. 3835 State Route 72 Kirkland, IL 60146	Durajoint	99-219
VINYL	Vinylex Corporation 2636 Byington-Solway Road Knoxville, TN 37931	Vinylex PVC Waterstop	00-009

SECTION 705.6
GRAPHITE LUBRICANT

KAUFM	Kaufman Products, Inc. 3811 Curtis Ave. Baltimore, MD 21226	Sure-Slip Graphite Paste	92-340

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SECTION 705.8(a)
Pipe Joint Caulk ASTM-D2822

			REF. NO.
BREWR	Brewer Co. 1354 U.S. Highway 50 Milford, OH 45150	#280 Asbestos free alt. to D-2822	91-254
CHMRX	ChemRex, Inc. / Sonneborn 889 Valley Park Drive Shakopee, MN 55379	Hydrocide Mastic	87-286
FBCCC	FBC Chemical Co. Rt. 228, P. O. Box 599 Mars, PA 16046	Pipe Joint Caulk Asbestos free alt. to D-2822	95-318
GARD0	Gardner Asphalt Co. P. O. Box 5449 Tampa, FL 33675	301 Mastic	87-275
GARD1	Seaford, DE		88-343
GARD2	Winston Salem, NC		89-307
MCCAS	McCann Shields Paint Co. 27 Alexander Street Pittsburgh, PA 15220	Sealing Mastic	87-277

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SECTION 705.8(a)
Pipe Joint Caulk ASTM-D2822

			REF. NO.
MEDW1	Meadows, W. R., Inc. 2100 Monroe St. York, PA 17404	SealTight Sewer Comp. Asbestoe Free Alt. to D-2822	92-278
MONSE	Monsey Prod. Co. Cold Stream Road Kimberton, PA 19442	Pipe Joint	86-203
POLYM	Polymeric Sys, Inc. Wheatland & Mason St. Phoenixville, PA 19460	PSI-901	87-385
PUREA	Pure Asphalt Co. 3300 West 31st Street Chicago, IL 60623	Sewer Joint Comp.	95-118
SEABD	Seaboard Asphalt Prod. Co. 3601 Fairfield Road Baltimore, MD 21226	MP-52	94-206

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SECTION 705.8(b)
Other Caulk ASTM-C834 or C920

			REF. NO.
BOSTK	Bostik Construction Prod. 1740 County Line Road Huntington Valley, PA 19006	Chem-Calk 100 Chem-Calk 900 Chem-Calk 915	86-022 86-023 93-206
CHMRX	ChemRex, Inc. / Sonneborn 889 Valley Park Drive Shakopee, MN 55379	Sonolastic NP1	90-185
DOW-4	Dow Corning Corp. 126 SW 148th St., #C100-162 Burien, WA 98166-1984	790 Silicone Sealent	93-235
MEDW0 **MEDW1**	Meadows, W. R., Inc. 300 Industrial Drive P.O. Box 338 Hampshire, IL 60140-0338 York, PA	CM-60 (2 part)	----------
PECCR	Pecora Corporation 165 Wambold Road Harleysville, PA 19438	NR-300 Urexpan Polyurethane Dynatrol I-XL Polyurethane Pecora 864 Silicone	00-282 00-283 00-286
POLYM	Polymeric Sys, Inc. Wheatland & Mason Sts. Phoenixville, PA 19460	PSI-621 Sealent	81-120
SCHMH	Schnee-Morehead, Inc. 111 North Nursery Road Irving, Texas 75060	SM7100 Permathane	99-003
SIKA1 **SIKA2**	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302 Lyndhurst, NJ	Sikaflex 1a Sikaflex 15LM Polyurethane	82-035 00-126
TREM2	Tremco, Inc. 3755 Green Road Beachwood, OH 44122	Dymonic Sealant	95-173

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SECTION 705.9
JOINT BACKING MATERIAL

			REF. NO.
INDUS	Industrial Thermo Polymers Ltd. 153 Van Kirk Drive Brampton, OT L7A 1A4	Blue-Grey, closed cell PE Foam Hot Rod XL (Black cross linked)	91-172 91-173
MEDW0	W. R. Meadows, Inc. 300 Industrial Drive P.O. Box 338 Hampshire, IL 60140-0338	Cera-Rod (Heat Resistant) Deck-O-Foam (Cold Application Only)	86-026 98-050
NOMAC	Nomaco, Inc. 501 NMC Drive Zebulon, NC 27597	Sof Rod (Cold Application Only) Green Rod (Cold Application Only) Dual Rod (Cold Application Only) HBR Backer Rod (Cold Application Only) HBR XL Backer Rod (Cold or Hot Applied)	95-182 01-175 01-176 01-177 01-178

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SECTION 706.1
EPOXY BONDING COMPOUND: ASTM C-881

		SYSTEM	TYPE	GRADE	REF. NO.
CHMRX	ChemRex, Inc. 889 Valley Park Drive Shakopee, MN 55379	ThoRoc Hi-Mod Gel	I	1	83-096
		Trafficguard EP35	III	1	90-245
		EpoGrip (Sonobond)	II	2	93-082
		Concresive 1380	I	1	75-040
		Concresive Std. Liq.	I & II	2	----------
		Concresive Paste LPL	I	3	92-146
		Concresive Liq. LPL	II	2	92-148
		Concresive Paste (spl)	I	3	92-147
		Concresive Std. LVI	I	1	94-163
DAYT0	Dayton Superior 402 South 1st Street Oregon, IL 61061-1836	Sure Anchor (J50)	I	3	91-352
		Resi-Bond (J58)	II	2	91-354
		Sure-Inject (J56)			91-353
EUCLD	Euclid Chem. Co. 19218 Redwood Rd. Cleveland, OH 44110	Euco 452 LV	I	1	86-310A
		Euco 452 MV	II	2	86-310B
HLMTE	Hallemite 80 Cypress Street P. O. Box 840 Warwick, RI 02888	Hallemite 140	II	2	97-195
		Hallemite 182LV (injection)	I	1	97-197
KAUFM	Kaufman Prod., Inc. 3811 Curtis Avenue Baltimore, MD 21226	Sure-Poxy LM-LV	III	1	81-049
		Sure-Poxy HM	II	2	81-050
		Sure-Poxy HMLV 112	I	1	88-290
		Sure-Poxy HM Gel	I	3	90-352
		Sure-Poxy HM, Class B	I	1	92-366
		Sure-Poxy 116	I	3	92-169

SECTION 706.1
EPOXY BONDING COMPOUND: ASTM C-881

		SYSTEM	TYPE	GRADE	REF. NO.
L&MCC	L&M Constr. Chem., Inc. 14851 Calhoun Road Omaha, NE 68152	Epobond	II	2	90-176A
MEDW1	W. R. Meadows of PA P. O. Box 7550 York, PA 17404	Rezi-Weld LV Rezi-Weld 1000 Rezi-Weld Gel Paste	I & III II I	1 2 3	90-230 90-231 90-232
PLYGM	Polygem, Inc. 1105 Carolina Dr. West Chicago, IL 60185	Polyject 1001 MV	I	1	95-048A
POLYC	Poly-Carb, Inc. 33095 Bainbridge Road Cleveland, OH 44139	Mark 25.3 Mark 184	I & II II	1 1	00-172 00-174
SIKA1	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302	Sikadur 35 Hi Mod LV Sikadur 31 Hi Mod Gel Sikadur 32 Hi Mod Sikadur 21 Lo Mod LV Sikadur 52 Injt. Resin Sikadur Injt. Gel	I I I & II III I I	1 3 2 1 1 3	 86-228 87-165
SYMNS	Symons Corp. 200 E. Toohy Ave. Des Plaines, IL 60018	Res Con 616 Res-Con 334 Res Con 414	II I III	2 1 1	92-129 93-122 93-124

SECTION 706.1
EPOXY BONDING COMPOUND: ASTM C-881

		SYSTEM	TYPE	GRADE	REF. NO.
TOCHB	Toch Brothers, Inc. 521 Parsons Street Easton, PA 18042	Epotox 101	III	1	96-042
		Epotox 240	III	1	95-141
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Duralbond	II	2, C	94-237
		Duralcrete	I	1	80-032
		Flexolith	III	1, C-A & B	94-231
		Flexocrete	III	, C-1	80-031
		Flexocrete Gel	III	3, C-C	----------
		Flexocrete	III	1, C-B,C	----------
UNITX	Unitex 3101 Gardner Kansas City, MO 64120	Pro-Poxy 100	I	1	91-290A
		Pro-Poxy 200	II	2	91-290B
		Pro-Poxy 300	I	3	91-290C
WATSB	Watson Bowman Acme 95 Pineview Drive Amherst, NY 14228	Wabo®WDE (water dispersable Epoxy)	II	2	88-052

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SECTION 706.2
NON-EPOXY BONDING COMPOUND: ASTM C-882

			REF. NO.
CHEMM	Chem Masters 300 Edwards St. Madison, OH 44057	Cretelox Bonding Agent	96-096
DAYT1	Dayton Superior 4226 Kansas Avenue Kansas City, KS 66106	Day-Chem Ad Bond (J-40)	95-161
KAUFM	Kaufman Products, Inc. 3811 Curtis Ave. Baltimore, MD 21226	SurePoxy HM EPL (for placement of fresh to hardened concrete only in the period 4 to 24 hours after application of bonding agent)	96-093
RDWRE	Roadware, Inc. 2100 Wentworth Ave. South St. Paul, MN 55075	10 Minute Concrete Mender	00-336
SIKA1	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302	Armatec 110	0-223
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Duralprep AC	96-222

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SECTION 709.1
REINFORCEMENT STEEL
Steel Products Procurement Act applies.

(a) Billet Steel
(a.1) Deformed
(a.2) Plain

(b) Rail Steel
(b.1) Deformed
(b.2) Plain

(c) Epoxy Coater

(d) Low Alloy Steel
(d.1) Deformed

❶ **Fabricator**

❷ **Epoxy Powder Manufacturer**

		TYPE	REF. NO.
ABCCM	ABC Coating Co. of Michigan 1503 Burlingame SW Wyoming, MI 49509	(c)	94-144
ABCNC	ABC Coating Co. of North Carolina P.O. Box 957 Gastonia, NC 28053-0957	(c)	97-114
ABCTX	ABC Coating Co. of Texas P. O. Box 248	(c)	97-115
ABSTM	A. B. Steel Mills, Inc. 204 W. North Bend Road Cincinnati, OH 45216	(a.1)	01-162
AHTC0	American Highway Tech. 2150B South Route 45-52 Kankakee, IL 60901 Division of Dayton Superior **(DAYT0)**	❶ (c)	94-117 96-160
ALTSC	Alton Steel Inc. # 5 Cut Street Alton, IL 62002	(a.2)	99-226
ARMAG	Armagost Steel Corporation, Inc. 1249 South Main Street Dubois, PA 15801	❶	02-080
BARKR	Barker Steel Co., Inc. 100 Bayview Ave. Keasbey, NJ 08832	❶	98-002

SECTION 709.1
REINFORCEMENT STEEL
Steel Products Procurement Act applies.

(a) Billet Steel
(a.1) Deformed
(a.2) Plain

(b) Rail Steel
(b.1) Deformed
(b.2) Plain

(c) Epoxy Coater

(d) Low Alloy Steel
(d.1) Deformed

❶ **Fabricator**

❷ **Epoxy Powder Manufacturer**

		TYPE	REF. NO.
BAYOU	Bayou Steel Corporation 2404 South Roane Street Harriman, TN 37748	(a.1)	01-213
BLOMT	Bloomsburg Metal Co. 610 North Penn Ave. Wilkes-Barre, PA 18705-1730	❶	
CHAPA	Chaparral Steel Co. 300 Ward Road Midlothian, TX 76065-9651	(a.1), (a 2)	86-120
CONNE	Connecticut Steel Corp. 35 Toelles Rd. P. O. Box 928 Wallingford, CT 06492	(a.1)	89-081 & 124 92-258
CONTM	Contractors Materials Co 10320 South Medallion Drive) Cincinnati, OH 45241	❶	97-049
DELTA	Delta Steel Corp. 10869 Paddy's Run Road Harrison, OH 45030	❶	94-161
DIAFB	Diamond Fabrications, Inc. 30 Stewart Court Washington, PA 15301	❶	98-045
DUPT3	E. I. DuPont Co. Powder Coatings 9800 Genard Road Houston, TX 77041	❷ Nap-Gard 7-2719	01-037

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SECTION 709.1
REINFORCEMENT STEEL
Steel Products Procurement Act applies.

(a) Billet Steel
(a.1) Deformed
(a.2) Plain

(b) Rail Steel
(b.1) Deformed
(b.2) Plain

(c) Epoxy Coater

(d) Low Alloy Steel
(d.1) Deformed

❶ **Fabricator**

❷ **Epoxy Powder Manufacturer**

		TYPE	REF. NO.
ENCOR	Encor Coatings, Inc. Division of Corban Corporation P. O. Box 26, Route 248 Bath, PA 18014	(c)	88-314
FREE1	Free State Steel, Inc. 1700 South Haven Street Baltimore, MD 21224	(c) ❶	87-425 87-425
GERD0	Gerdau AmeriSteel (Corporate Office) 5100 West Lemon St., Suite 312 P. O. Box 31328 Tampa, FL 33609		
GERD1	Gerdau AmeriSteel Charlotte Steel Mill Div. 6601 Lakeview Road Charlotte, NC 28269	(a.1), (a.2)	86-167 86-042
GERD2	Gerdau AmeriSteel West Tennessee Steel Mill Div. P. O. Box 3670 Jackson, TN 38303	(a.1), (a.2)	86-160
GERD3	Gerdau AmeriSteel Knoxville Steel Div. P. O. Box 51236 1919 Tennessee Avenue Knoxville, TN 37950-1236	(a.1), (a.2) (c)	86-195 86-300 87-204 88-337
GERD4	Gerdau AmeriSteel Jacksonville Steel Mill Div. P. O. Box 518, Hwy, 217 Yellow Water Road Baldwin, FL 32234-0518	(a.1), (a.2)	86-166

More Gerdau AmeriSteel on next page.

SECTION 709.1
REINFORCEMENT STEEL
Steel Products Procurement Act applies.

(a) Billet Steel
(a.1) Deformed
(a.2) Plain

(b) Rail Steel
(b.1) Deformed
(b.2) Plain

(c) Epoxy Coater

(d) Low Alloy Steel
(d.1) Deformed

❶ **Fabricator**

❷ **Epoxy Powder Manufacturer**

		TYPE	REF. NO.
GERD5	Gerdau AmeriSteel 300 Steel Ave., P.O. Drawer. 1368 St. Albans, WV 25177	❶	88-119
GERD6	Gerdau AmeriSteel Brocker Northeast Region 1700 Seventh Ave. York, PA 17403	❶	
GERD7	Gerdau AmeriSteel Brocker Northeast Region 6900 Quad Ave. Baltimore, MD 21237	❶	94-008
GERD8	Gerdau AmeriSteel Brocker Northeast Region 20 Industrial Park Road Milton, PA 17847	(c) ❶	95-241
GERD9	Gerdau AmeriSteel, Wilmington Steel Div. 407 Old Airport Rd. New Castle, DE 19720	❶	
GERD10	Gerdau AmeriSteel, Sayreville Steel Div. 301 Hartle Street Sayreville, NJ 08872	❶	98-180
GERD11	Gerdau AmeriSteel, Sayreville Steel Div. North Crossman Rd. Sayreville, NJ 08872	(a.1), (a 2) (c)	88-097 & 98 90-381
GERD12	Gerdau AmeriSteel, Perth Amboy Steel Div. 225 Elm Street Perth Amboy, NJ 08862	(a.1)	00-099

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SECTION 709.1
REINFORCEMENT STEEL
Steel Products Procurement Act applies.

(a) Billet Steel
(a.1) Deformed
(a.2) Plain

(b) Rail Steel
(b.1) Deformed
(b.2) Plain

(c) Epoxy Coater

(d) Low Alloy Steel
(d.1) Deformed

❶ **Fabricator**

❷ **Epoxy Powder Manufacturer**

		TYPE	REF. NO.
HARRS	Harris Rebar Atlantic, Inc. 1700 Riverside Dr. Bethlehem, PA 18016-1156	(c) ❶	96-074 96-074
KENGC	Kenglo Construction Supply Co., Inc. P. O. Box 54, Route 403 South Strongstown, PA 15957	❶	01-152
LANE5	Lane Enterprises, Inc. 1244 Claremont Road Carlisle, PA 17013	(c)	
MARSC	Marion Steel Co. 912 Cheyney Ave. Marion, OH 43302	(a.1), (a.2)	91-020

SECTION 709.1
REINFORCEMENT STEEL (Continued)
Steel Products Procurement Act applies.

(a) Billet Steel
(a.1) Deformed
(a.2) Plain

(b) Rail Steel
(b.1) Deformed
(b.2) Plain

(c) Epoxy Coater

(d) Low Alloy Steel
(d.1) Deformed

❶ **Fabricator**

❷ **Epoxy Powder Manufacturer**

		TYPE	REF. NO.
MIDWP	Midwest Pipe Coating 925 Kennedy Ave. Schererville, IN 46375	(c)	84-128
3M-01	3M, Inc.	❷ ScotchKote 213 & 214	
	Traffic Control Mat'ls Lab.	❷ ScotchKote 215	91-034
	3M Center, Bldg. 235-3B-55 St. Paul, MN 55144	❷ ScotchKote 413	92-378
3M-02	Other Plant: Austin, TX		
MORGA	Morgan Welding Inc. R D #1, Box 172F Myerstown, PA 17067	❶	89-247
MORTT	Morton Internat.Powder Coat. 1102 Leiter Drive Warsaw, IN 46580	❷ Corvel Green 10-6071	89-171
NOSS2	North Star Steel Co. 1678 Red Rock Road St. Paul, MN 55164	(a.1), (a.2)	86-354 89-198
NOSS3	North Star Steel Texas, Inc. Box 2390 Beaumont, TX 77704	(a.1), (a.2)	87-027

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SECTION 709.1
REINFORCEMENT STEEL (Continued)
Steel Products Procurement Act applies.

(a) Billet Steel
(a.1) Deformed
(a.2) Plain

(b) Rail Steel
(b.1) Deformed
(b.2) Plain

(c) Epoxy Coater

(d) Low Alloy Steel
(d.1) Deformed

❶ **Fabricator**

❷ **Epoxy Powder Manufacturer**

		TYPE	REF. NO.
NUCR1	Nucor Steel, Darlington Div. P. O. Box 525 300 Steel Mill Road Darlington, SC 29540	(a.1), (a.2)	91-180
NUCR2	Nucor Steel, Auburn Div. P. O. Box 2008 25 Quarry Road Auburn, NY 13021	(a.1), (a.2), (d.1)	98-165
NUCR3	Nucor Steel Kankakee, Inc. 972 East 4500 North Road Bourbonnais, IL 60914-4127	(a.1), (a 2), (d.1)	91-274 91-367
NUCR4	Nucor Steel Jackson, Inc. P.O. Box 97449 Jackson, MS 39288-7449	(a.1), (a 2)	87-151 91-314 & 15
NUCR5	Nucor Steel Birmingham, Inc P. O. Box 2764 Birmingham, AL 35202-2764	(a.1)	90-014 & 66 91-070 & 71 95-224 95-280

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SECTION 709.1
REINFORCEMENT STEEL (Continued)
Steel Products Procurement Act applies.

(a) Billet Steel
(a.1) Deformed
(a.2) Plain

(b) Rail Steel
(b.1) Deformed
(b.2) Plain

(c) Epoxy Coater

(d) Low Alloy Steel
(d.1) Deformed

❶ **Fabricator**

❷ **Epoxy Powder Manufacturer**

		TYPE	REF. NO.
RESTE	Re-Steel Supply Co., Inc. 2000 Eddystone Industrial Park Eddystone, PA 19013	❶	
RJ-RE	R. J. Rebar, Inc. 1810 South Macedonia St. Muncie, IN 47302	(c)	89-096
RVRVW	Riverview Steel Corporation Allegheny Avenue & West 7th St. Glassport, PA 15045	(a.1)	98-140
SEIPC	Seibert Powder Coatings, Inc. 11110 Berea Road Cleveland, OH 44102-2534	❷ Powdax E-90	93-170
SIMCT	Simcote of Ohio, Inc. 250 North Greenwood St. Marion, OH 43302	(c)	85-022
SMISC	SMI Steel of SC 310 New State Road P. O. Box 2005 Cayce-West Columbia, SC 29171	(a.1), (a.2)	88-096 89-099 93-045 98-084

SECTION 709.1
REINFORCEMENT STEEL (Continued)
Steel Products Procurement Act applies.

(a) Billet Steel
(a.1) Deformed
(a.2) Plain

(b) Rail Steel
(b.1) Deformed
(b.2) Plain

(c) Epoxy Coater

(d) Low Alloy Steel
(d.1) Deformed

❶ **Fabricator**

❷ **Epoxy Powder Manufacturer**

		TYPE	REF. NO.
STEEL	Steelcorp, Inc. 5938 State Route 128 Miamitown, OH 45041	❶	00-112
TITUS	Titusville Fabricating, Inc. 191 Howard St. Franklin, PA 16323	(c) ❶	96-073
TOLTC	Toltec Steel Services, Inc. 780 Eastgate Ind. Parkway, P.O. Box 351 Kankakee, IL 60901	(c) ❶	01-229 01-229
TRISR	Tri State Rebar Company P. O. Box 181 Wilmerding, PA 15148	❶	90-308
VALSP	Valspar Corporation 1136 Fayette Street N. Kansas City, MO 64116-4160	❷ Greenbar	92-289
ZOTTS	Zottola-Simpson Rebar, Inc. 20 Silverlake Drive Pittsburgh, PA 15206	❶	

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SECTION 709.3 & 709.4

709.3 Steel Welded Wire Fabric: AASHTO M-55 (ASTM A-185)
709.4 Deformed Welded Wire Fabric: AASHTO M-221 (ASTM A-497)

❶, **Wire Manufacturer** ❷, **Welded Wire Fabric Fabricator** ❸, **Epoxy Coater**

Steel Products Procurement Act applies.

			REF. NO.
CARSW	Cargill Steel & Wire 1915 John Connally Drive Carrollton, TX 75006	709.3 ❶	00-027
CONCT	Concrete Pipe Prod. Corp. Ten Thomas St. Chenango Bridge, NY 13745	709.3 ❶	90-323
CONNE	Connecticut Steel Corp. 35 Toelles Rd. P. O. Box 928 Wallingford, CT 06492	709.3 ❷	92-258B
DOWNY	Downey, B. L,, Co., Inc. 2125 Gardner Rd. Broadview, IL 60153	❸	96-248
ENGWP	Engineered Wire Products, Inc. P.O. Box 313 Upper Sandusky, OH 43351	709.3 & 709.4 ❷	91-136
FOXVS	Fox Valley Steel & Wire Co. 111 North Douglas Street Hortonville, WI 54944	709.3 ❶	00-339
INST0	Insteel Wire Products. 1373 Boggs Dr., P. O. Box 1122 Mount Airy, NC 27030	709.3 & 709.4 ❷	----------
INST1	Wilmington, DE	709.3 & 709.4 ❷	----------
INST2	Dayton, TX	709.3 ❷	00-160

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SECTION 709.3 & 709.4

709.3 Steel Welded Wire Fabric: AASHTO M-55 (ASTM A-185)
709.4 Deformed Welded Wire Fabric: AASHTO M-221 (ASTM A-497)

❶, **Wire Manufacturer** ❷, **Welded Wire Fabric Fabricator** ❸, **Epoxy Coater**

Steel Products Procurement Act applies.

			REF. NO.
IOWSW	Iowa Steel & Wire 1500 West Van Buren Centerville, IA 52544	709.3 & 709.4 ❷	00-230
IS&W1	Ivy Steel & Wire, Div. MMI Prod. 8203 Fischer Road Baltimore, MD 21222-0906		
IS&W2	Oregon, OH	709.3 ❷	95-112
IS&W3	Houston, TX	709.4 ❷	98-052
IS&W4	Hazelton, PA	709.4 ❷	92-071
	IS&W4 Formerly: STRUC Structural Reinforcement Products	709.3 ❷	93-221
IS&W5	St. Joseph, MO **Formerly: Hallett Wire Products HALET**	709.3 & 709.4 ❷	96-191
LANE5	Lane Enterprises, Inc 1244 Claremont Rd. Carlisle, PA 17013	❸	89-223
LEGPT	Leggett & Platt, Inc. Adcom Wire Division No. 1 Leggett Road Carthage, MO 64836 Plant: Nicholasville, KY	709.3 ❶	02-022
TATAN	Tatano Wire & Steel Inc. 224 Jackson St., P.O. Box 247 Houston, PA 15342	709.3 ❷	95-017
TAUSW	Taubensee Steel & Wire Co. 600 Diens Drive Wheeling, IL 60090	709.3 ❶	03-062

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SECTION 711.1
CURING AND PROTECTING COVERS

711.1(a) White PE Sheeting
711.1(b)1 White PE Sheeting-Natural Burlap Backed
711.1(b)2 White PE Sheeting-Synthetic Burlap Backed
711.1(c) White Polypropylene Sheeting- Polypropylene Fiber Backed
711.1(d) Burlap
711.1(e) Insulating Mats
711.1(f) Foam Insulation

		TYPE	REF. NO.
ABITC	Abitec, Inc. 105 Grove Circle Chalfont, PA 18914	(d)	99-191
ACEBB	Ace Bag & Burlap Co. Inc. 205 Water Street Brooklyn, NYC, NY 11201	(d)	92-046
AMEES	Amee Sales Inc. 55 West 39th Street New York, NY 10018	(d)	92-274A
BAG-P	Bag Processors, Inc. 15 North Frederick Street Mechanicsburg, PA 17055	(d)	83-106
FIRST	Firstline Corporation 511 Highland Drive Valdosta, GA 31601	(a) (c)	99-180 99-020
G&GF0	G & G Fabricating Co. 930 Henderson Blvd. #12 Folcroft PA 19032	(d)	----------
INDVA	Indian Valley Industries, Inc. 100 Corliss Ave. Johnson City, NY 13790	(d)	94-100
JOHNS	Johnston-Morehouse Dickey Co. 5401 Progress Blvd., P. O. Box 173 Bethel Park, PA 15102	(d) (b)1	88-155 89-023

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SECTION 711.1
CURING AND PROTECTING COVERS

711.1(a) White PE Sheeting
711.1(b)1 White PE Sheeting-Natural Burlap Backed
711.1(b)2 White PE Sheeting-Synthetic Burlap Backed
711.1(c) White Polypropylene Sheeting- Polypropylene Fiber Backed
711.1(d) Burlap
711.1(e) Insulating Mats
711.1(f) Foam Insulation

		TYPE	REF. NO.
MAX-K	Max Katz Bag Co., Inc. 235 South Lasalle Street Indianapolis, IN 46201	(b)1, (d) (b)2	---------- 95-095
MIDWC	Midwest Canvas Corporation 4635 West Lake Street Chicago, IL 60644	(b)1 (e)	00-105 00-107
OWENC	Owens Corning One Owens Corning Parkway Toledo, OH 43659	(f), Foamular 150, 250, 400, 600, 1000	02-005
PACTV	Pactiv Building Products 2100 Riveredge Pkwy., Suite 175 Atlanta, GA 30328	(f), Amofoam CM .5", 1", 1.5", 2", 2.5", 3"	90-359A-F
POLYA	Poly-America, Inc. 2000 West Marshall Drive Grand Prairie, TX 75051	(a)	86-176
STRPL	Strout Plastics, Inc. 9611 James Avenue, South Bloomington, MN 55431	(a)	86-391 86-392
TYCOP	Tyco Plastics, Inc. State Road 1419 Battleboro, NC 27809	(a)	01-144
WESTB	Wester Bag & Supply Co. 308 Fifth Street Braddock, PA 15104	(d)	87-152

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SECTION 711.2(a) & (b)
CONCRETE CURING COMPOUND

711.2(a) Cl = Clear & WP = White Pigmented
711.2(b) Bl = Black (asphalt emulsion or cut back)

		TYPE	REF. NO.
ADMXT	Admixtures, Inc. 34 E. Lancaster Ave. Shillington, PA 19607	B/C Resin Base Curing Cl & WP	----------
CHEMM	Chem Masters 300 Edwards St. Madison, OH 44057	Safe-Cure Cl Safe-Cure 1000 & 2000 Spray-Cure Cl & WP Spray-Cure DR Red Safe-Cure & Seal EPX Cl	89-076 89-043 & 044 ---------- 00-008 99-217
DAYT1	Dayton Superior 4226 Kansas Avenue Kansas City, KS 66106	DSSCC White Wax Cure DSSCC White Resin Cure DSSCC Clear Resin Cure DSSCC White Resin Cure w/ Dye DSSCC Clear Wax Cure	00-101 ---------- 94-070 85-200 00-102
EUCLD	Euclid Chem. Co. 19218 Redwood Rd. Cleveland, OH 44110	Kurez E-100 EUO-Kurez E-40	----------
KAUFM	Kaufman Prod., Inc. 3811 Curtis Avenue Baltimore, MD 21226-1131	Thinfilm-420 Cl Thinfilm-450 WP Thinfilm0-445 (Wax Based)	---------- 89-147
L&MCC	L&M Construction Chemicals, Inc. 14851 Calhoun Road Omaha, NE 68152	Cure W-2 Cure R Cure R-2	94-162 94-187 94-188

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SECTION 711.2(a) & (b)
CONCRETE CURING COMPOUND

711.2(a) Cl = Clear & WP = White Pigmented
711.2(b) Bl = Black (asphalt emulsion or cut back)

		TYPE	REF. NO.
MEDW1	W. R. Meadows, Inc.	Sealtight 3110 Cl w/rfd	88-321
	2100 Monroe Street	Sealtight 2200 WP	----------
	York, PA 17404	Sealtight 1100 Cl	88-321
MEDW0	Plant: Hampshire, IL	Sealtight 1200 WP	88-251
		Sealtight 1250 WP	92-076
		Sealtight 1600 WP	88-252
PROS1	Prosoco, Inc.	Klear Seal-R-75 Cl	----------
	111 Snyder Road		
	South Plainfield, NJ 07080		
RTPTC	Right / Pointe Company	White Water Wax WP	03-033
	234 Harvestore Drive		
	DeKalb, IL 60115		
TAMMS	Tamms Industries	Horncure WB 30D	01-140
	3835 State Route 72		
	Kirkland, IL 60146		
VEXCN	Vexcon Chemicals, Inc.	Enviocure Clear 500	00-067
	7240 State Road	Enviocure White 500	00-068
	Philadelphia, PA 19135	Certi-Vex AC	00-069
		Enviocure Asphalt	00-070
		Certi-Vex Envio RC 1000, Type 1-D, Cl	02-126
WATSB	Watson Bowman Acme Corp.	Wabo®WDE	88-052
	95 Pineview Drive		
	Amherst, NY 14228		

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SECTION 711.2(c)
MONOMOLECULAR FILM FOR BRIDGE DECKS

❶ **Provisional Approval : MTD must be contacted prior to use. (717) 787-3137**

		TYPE	REF. NO.
CHEMM	Chem Masters 300 Edwards Street Madison, OH 44057	Spray-film	90-186
CHMRX	ChemRex, Inc. 889 Valley Park Drive Shakopee, MN 55379	Confilm	74-038
DAYT1	Dayton Superior 4226 Kansas Avenue Kansas City, KS 66106	Sure Film (J-74) ❶	99-206
EUCLD	Euclid Chem. Co. 19218 Redwood Rd. Cleveland, OH 44110	Euco-Bar	88-088
KAUFM	Kaufman Products 3811 Curtis Ave. Baltimore, MD 21226	Vapor Aid	93-046
L&MCC	L&M Construction Chemicals, Inc. 14851 Calhoun Road Omaha, NE 68152	E-Con	90-176B
MEDW1	Meadows, W. R., Inc. 2100 Monroe St. York, PA 17404	Evapre ❶	98-182
SIKA1	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302	SikaFilm ❶	00-130
SIKA2	Lyndhurst, NJ		

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SECTION 711.3
CONCRETE ADMIXTURES

(AE) Air Entraining
(AC) Accelerating
(RE) Retarding
(WR) Water Reducing
(RR) Water Reducing & Retarding
(GF) Grout Fluidifier
(MRWR) Mid-Range Water Reducing
(HRWR) High Range Water Reducing
(HRRR) High Range Water Reducing & Retarding
(ESA) Early Strength Accelerator
(WRA) Water Reducing & Accelerator
(LE) Latex Emulsion

❶ **Provisional Approval : MTD must be contacted prior to use. (717) 787-2489**

		PRODUCT	TYPE	REF. NO.
AXIM-	AXIM Concrete Tech. Inc. P. O. Box 234 8282 Middlebranch Road Middlebranch, OH 44652	Catexol 1000SP-MN	(HRRR)	90-211
		Catexol AE 260	(AE)	91-047
		Catexol 1000R	(RR)	92-156
		Catexol VR Concentrate	(AE)	95-216
		Catexol 2000 RHE	(AC)	96-008
		❶ Catexol 800N	(WR)	96-194
		Catexol 1000N	(WR)	87-311
		Catexol 1000N (dosage> 3.5 oz/100 lbs.)	(RR)	87-311
		❶ Catexol 2000Ni	(WR)	98-085
		❶ Catexol 2000Ni (dosage> 3 to 12oz/100 lbs.)	(MRWR)	98-085
		❶ Catexol 3500N	(WR)	98-086
		❶ Catexol 1000 SPMN-C	(HRWR)	99-145
		❶ Catexol AE 360	(AE)	00-295
		❶ Superflux 2000 PC	(HRWR)	00-296
		❶ Catexol 1000 SPM	(HRWR)	01-215
		❶ Catexol 1000 SPN	(HRWR)	01-216
		❶ Catexol 3000 GP	(WR) (MRWR)	01-217
		❶ Catexol 2000 RHE	(WR) (AC)	01-231
	(For use in flowable fill only)	❶ Flow-Air	(AE)	02-110
CELLC	Cellular Concrete LLC 220 West Westfield Ave. Roselle Park, NJ 07204	❶ Forta GoldenAir **flowable fill only**	(AE)	02-139
DOW-5	Dow Chemical Company 1791 Cambridge Dr. Suite 202 Richmond, VA 23233 Plant: Midland MI	Dow Concrete A/AN	(LE)	----------

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SECTION 711.3
CONCRETE ADMIXTURES (Continued)

(AE) Air Entraining
(AC) Accelerating
(RE) Retarding
(WR) Water Reducing
(RR) Water Reducing & Retarding
(GF) Grout Fluidifier
(MRWR) Mid-Range Water Reducing
(HRWR) High Range Water Reducing
(HRRR) High Range Water Reducing & Retarding
(ESA) Early Strength Accelerator
(WRA) Water Reducing & Accelerator
(LE) Latex Emulsion

❶ **Provisional Approval : MTD must be contacted prior to use. (717) 787-2489**

		PRODUCT	TYPE	REF. NO.
EUCLD	Euclid Chem. Co. 19218 Redwood Rd. Cleveland, OH 44110	Euco-Air-Mix	(AE)	75-080
		Eucon	(RE)	----------
		Eucon-75	(RE)	----------
		Eucon 37	(HRWR)	80-023
		Eucon 537	(HRRR)	91-282
		Accelguard 80	(AC)	89-118
		Eucon WR	(WR)	----------
		Eucon WR-75	(WR)	75-084
		Eucon WR-89	(WR)	91-358
		Eucon WR-91	(RR)	93-023
		Euco AEA 92	(AE)	93-024
		Air Mix 200	(AE)	95-005
		❶ Plastol 5000	(HRWR)	02-148
		❶ Eucon MR	(MRWR)	02-149
		Eucon 1037	(HRWR)	03-067
		Boral Air 30	(AE)	85-043
		❶ Boral Air 40 (dosage = 1.0 oz/100 lbs.)	(AE)	99-071
		❶ Boral LR (dosage = 4.0 oz/100 lbs.)	(RE) (WR) (RR)	99-072
GENRT	General Resource Technology 2978 Center Ct Eagan, MN 55121-1257	Polychem Super Set	(AC) (WR)	95-218
GNLRC	General Redi-Chem, Inc. 360 State Hwy, 31 South Suite 300 Washington, NJ 07882	❶ Redi-Chem Aero 2000	(AE)	99-121
		❶ Redi-Chem SP 1000	(WR)	99-122
		❶ Redi-Chem SP 1000	(MRWR)	99-123
		❶ Redi-Chem SP 1000	(HRWR)	99-124

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SECTION 711.3
CONCRETE ADMIXTURES (Continued)

(AE) Air Entraining
(AC) Accelerating
(RE) Retarding
(WR) Water Reducing
(RR) Water Reducing & Retarding
(GF) Grout Fluidifier

(MRWR) Mid-Range Water Reducing
(HRWR) High Range Water Reducing
(HRRR) High Range Water Reducing & Retarding
(ESA) Early Strength Accelerator
(WRA) Water Reducing & Accelerator
(LE) Latex Emulsion

❶ **Provisional Approval : MTD must be contacted prior to use. (717) 787-2489**

GRAC0 W. R. Grace Co.
62 Whittemore Ave.
Cambridge, MA 02140
Plants:
GRAC2 North Bergan, NJ
GRAC3 Chicago, IL
GRAC4 Wilmington, NC
GRAC5 Houston, TX

	PRODUCT	TYPE	REF. NO.
	Daracem 19	(HRWR)	79-028
	Daracem 100	(HRWR)	84-179
	Daratard 17	(RR)	74-037
	Daratard HC	(RE)	----------
	Daravair 1000	(AE)	95-041
	Daracem ML 330	(HRWR)	77-030
	Daravair M	(AE)	81-040
	Daravair R	(AE)	----------
	Darex	(AE)	80-049
(For Non-reinforced concrete only)	Daracel	(AC) (WR)	83-257
	Darex II	(AE)	93-207
(Admixtures, Inc., Shillington PA)	Daravair 1400	(AE)	95-220
❶	Daracem ML-500	(HRWR)	95-274
	Daracem 55	(WR)	95-039
	Polar Set	(AC)	95-040
	WRDA 20	(WR)	88-231
	WRDA 35	(WR)	98-001
	WRDA 82	(WR)	91-167
	WRDA/Hycol	(WR)	82-121
❶	Daravair AT60	(AE)	97-048
❶	ADVA Flow	(HRWR)	96-165
❶	ADVA Cast	(HRWR)	97-106
❶	DCI	(AC)	98-147
❶	ADVA 100	(HRWR)	99-125
❶	MIRA 70	(MRWR)	00-007
❶	Lubricon NCA	(AC)	00-146
❶	Lubricon NCA	(WRA)	00-146
❶	ADVA Cast 530	(HRWR)	02-045
(For use in flowable fill only) ..... ❶	Darafill	(AE)	97-148
❶	ADVA 140	(HRWR)	02-119
	ADVA Cast 500	(HRWR)	03-076
	ADVA 170	(HRWR)	03-123

SECTION 711.3
CONCRETE ADMIXTURES (Continued)

(AE) Air Entraining
(AC) Accelerating
(RE) Retarding
(WR) Water Reducing
(RR) Water Reducing & Retarding
(GF) Grout Fluidifier
(MRWR) Mid-Range Water Reducing
(HRWR) High Range Water Reducing
(HRRR) High Range Water Reducing & Retarding
(ESA) Early Strength Accelerator
(WRA) Water Reducing & Accelerator
(LE) Latex Emulsion

❶ **Provisional Approval : MTD must be contacted prior to use. (717) 787-2489**

		PRODUCT	TYPE	REF. NO.
MAST0	Master Builders, Inc.	MB-VR Concentrated	(AE)	----------
	23700 Chagrin Blvd.	MB-VR Standard **(Pave-Air)**	(AE)	----------
	Cleveland, OH 44122	Micro-Air	(AE)	84-185
	Plants:	MB-AE 90	(AE)	94-011
MAST1	Allentown, PA	Pozzolith 400-N	(HRWR)	82-105
MAST2	Gurnee, IL	Pozzolith 82 (MBL-82)	(RR)	81-032
MAST3	Tipp City, OH	Pozzolith 100-XR	(RE)	69-013
MAST4	Richmond, VA	Pozzolith 122-R	(RE)	75-014
MAST7	Springfield, MI	Pozzolith 200-N	(WR)	75-066
MAST8	St. Leonard, QE, Canada	Pozzolith 300-R	(RE)	74-031
MAST9	Tronto, OT, Canada	Pozzolith 300-N	(WR)	75-065
	(For use in non-reinforced concrete only)	Pozzolith 122-N	(WR)	75-067
	(For use in non-reinforced concrete only)	Pozzolith 122-HE	(AC)	78-030
		Pozzolith 220-N **(Masterpave-N)**	(WR)	85-038
		❶ Pozzolith 200-N	(RE) & (RR)	00-142
		Pozzolith 322-N	(WR)	91-049
		Pozzolith NC 534	(AC)	97-153
		Pozzutec 20	(WR)	87-061
		Pozzutec 20	(AC)	87-061
		Rheobuild 1000	(HRWR)	86-373
		Rheobuild 2000B	(HRWR)	94-257
		Glenium 3000 NS	(HRWR)	99-021
		Rheocell/Rheofill **Flowable fill only**	(AE)	99-132
		Polyheed 997	(WR)	90-336
		❶ Polyheed FC 100	(MRWR)	97-198
		Prokrete N	(WR)	84-138
		Conchem 25-XL	(WR)	84-139
		Delvo Stablizer	(RR)	95-071
		❶ Rhcomix 730 FCS **(Precast Only)**	(WR)	00-320
		❶ Pozzolith 80 **(Masterpave)**	(WR)	01-024
		❶ Pozzolith 80 **(Masterpave)**	(RR)	01-024
		Glenium 3030 NS	(HRWR)	01-188
		Glenium 3030 NS	(WR)	02-034
		❶ Glenium 3200 HES	(HRWR)	01-212
		❶ Glenium 3200 HES	(WR)	02-035
		❶ Pozzutec 20+	(WR) & (AC)	02-018

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SECTION 711.3
CONCRETE ADMIXTURES (Continued)

(AE) Air Entraining
(AC) Accelerating
(RE) Retarding
(WR) Water Reducing
(RR) Water Reducing & Retarding
(GF) Grout Fluidifier
(MRWR) Mid-Range Water Reducing
(HRWR) High Range Water Reducing
(HRRR) High Range Water Reducing & Retarding
(ESA) Early Strength Accelerator
(WRA) Water Reducing & Accelerator
(LE) Latex Emulsion

❶ **Provisional Approval : MTD must be contacted prior to use. (717) 787-2489**

		PRODUCT	TYPE	REF. NO.
REICH	Reichold Chemicals, Inc. P. O. Drawer "K" Dover, DE 19903	Tylac 97314-00	(LE)	90-287
SIKA1	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302	Sika-AER	(AE)	----------
		Plastiment	(RE)	69-023
		Plastiment NS	(WR)	95-030
	Plants:	Sikament 300	(HRWR)	83-074
SIKA1	Marion, OH	Plastocrete-161	(WR)	77-040
SIKA2	Lyndhurst, NJ	Plastocrete-161R	(RE)	77-041
		Intraplast-N	(GF)	74-028
		Plastocrete-161FL	(AC)	95-181
		Plastocrete-161MR	(RR)	89-225
		Sikament FF	(HRWR)	92-007
		Rapid 1	(ESA)	96-138
		Sika AEA 15	(AE)	87-055
		Sikament 86	(HRWR)	89-214
		Sikament 10 ESL	(HRWR)	91-110
		❶ Sika Air	(AE)	00-061
		❶ Sikament 2000	(HRWR)	00-062
		❶ ViscoCrete 3010	(HRWR)	00-145
		❶ SikaSet NC	(AC)	00-271
		❶ Sikament MP	(MRWR)	00-182
		❶ Sikament MP	(HRWR)	00-182
		❶ Viscocrete 5000	(HRWR)	01-092
		❶ Viscocrete 6000	(HRWR)	01-093
		(For use in flowable fill only) …… ❶ Lightcrete	(AE)	02-120
		❶ Viscocrete 6100	(HRWR)	03-032
		Sikament NL	(MRWR)	03-153
SPCRT	Specrete-IP Inc. 10703 Quebec Ave. Cleveland, OH 44106	Intrussion Aid	(GF)	69-010

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SECTION 713.1
B R I C K

		REF. NO.
REDLA	Redland Brick Inc. Hamar Plant 375 Rich Hill Road, R.D. #3 Cheswick, PA 15024	83-172
WATBC	Watsontown Brick Company Route 405, P.O. Box 68 Watsontown, PA 17777	03-005

SECTION 713.2
PRECAST CONCRETE BLOCKS

BAUER Bauer Co., Inc.
1150 North Water Street
Kittanning, PA 16201

BEAVE Beavertown Block Co., Inc.
P.O. Box 337
Middleburg, PA 17842-0337

CASTL Castle Builders Supply Company
1409 Moravia St.
New Castle, PA 16101-3968

DIMLC DiMedio Lime Company
1801 Federal Street
Camden, NJ 08105

SECTION 713.2
PRECAST CONCRETE BLOCKS

FIZZ0 Fizzano Bros Concrete Products
1776 Chester Pike
Crum Lynne, PA 19022
Other Plants:
FIZZ1 Trevose, PA
FIZZ2 Malvern, PA

NEW-0 New Holland Newcrete Concrete Prod. Co.
Division of New Enterprise S & L Co.
P. O. Box 85
New Holland, PA 17557

SIDLY R. W. Sidley Incorporated
715 New Castle Road
Slippery Rock, PA 16057

TERH0 Terre Hill Concrete Prod.
P. O. Box 10
Terre Hill, PA 17581

YORKB York Building Products, Inc.
1020 North Hartley St.
York, PA 17404

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SECTION 714
PRECAST CONCRETE PRODUCTS

The following codes apply to all listings in this section

	English (E)	Metric (M)
A Concrete Glare Screen		
A1	52" Glare Screen	A1 1320 mm Glare Screen
B Median Barriers		
B1	34" Single Face	B1 860 mm Single Face
B2	34" Double Face	B2 860 mm Double Face
B3	41" Single Face	B3 1040 mm Single Face
B4	34" Double Face & JJ Hook	B4 860 mm Double Face & JJ Hook
C Reinforced Concrete Manhole Sections		
D Precast Inlet Assemblys		
D1	Std. - Inlet Assembly	D1 610 x 1150 - Inlet Assembly
D2	Type 1 - Inlet Assembly	D2 1220 x 1220 - Inlet Assembly
D3	Type 2 - Inlet Assembly	D3 610 x 1829 - Inlet Assembly
D4	Type 3 - Inlet Assembly	D4 1829 x 1829 - Inlet Assembly
D5	C - Top	D5 C - Top
D6	C Alternate - Top	D6 C Alternate - Top
D7	M - Top D7	M – Top
D8	S - Top D8	S – Top
D9	D-H Inlet D9	D-H Inlet

	English (E)	Metric (M)
E Junction Boxes		
E1	JB - 1	E1 JB - 1
E2	JB - 2	E2 JB - 2
E3	JB - 11	E3 JB - 11
E4	JB - 12	E4 JB - 12
F Endwalls		
F1	D - Wall	F1 D - Wall
F2	DE - Wall	F2 DE - Wall
F3	DW - Wall	F3 DW - Wall
F4	ES - Wall	F4 ES - Wall
F5	Subsurface Drain Outlet	F5 Subsurface Drain Outlet
F6	Sloped Subsurface Drain Outlet	F6 Sloped Subsurface Drain Outlet
G Noise Barrier (Sound Walls)		
G1	Posts (Precast)	G1 Posts (Precast)
G2	Panels	G2 Panels
G3	Posts (Prestressed)	G3 Posts (Prestressed)

ALTFJ Altomare Precast, Inc.
4300 Wissahickon Ave.
Philadelphia, Pa 19129

E C D1 D2 D3 D4 D5 D6 D7 D8 F1 F2 F3 F4 F5
M C D1 D2 D3 D5 D7 D8

ATLCP Atlantic Concrete Products, Inc.
8900 Old Route 13
Tullytown, PA 19007-1375

E C D1 D2 D3 D4 D5 D7 D8 F1 F2 F3 F4
M C D1 D2 D3 D4 D5 D7 D8

BINGH Binghamton Precast & Supply
Phelps Street
Binghamton, NY 13901

E C D1 D2 D3 D4 D5 D7 F1 F2 F3F4
M

BYCRT Bycrete Fabrications
517 King Street, RD #1
Lebanon, PA 17042

E C D1 D2 D3 D4 D5 D7 D8 F1 F2 F3 F4 F5
M C D1 D2 D3 D4 D5 D7 D8 F1 F2 F3 F5

SECTION 714
PRECAST CONCRETE PRODUCTS
See Item descriptions on initial page of Section

CAMDE	Camden Company 411 Hickory Ridge Road Washington, PA 15301	**E** **M**	D1 D2 D3 D4 D7 D8 D1 D2 D3 D4 D7 D8
CONCR	Concrete Concepts, Inc. 1095 Thompson Ave.,P.O. Box 272 McKees Rocks, PA 15136	**E** **M**	B1 B2 C D1 D2 D5 D7 D8 E1 E2 E3 E4 F1 F3 F5 C D1 D5 D7 D8 E1 E2 E3 E4 F1 F3 F5
CONSS	Concrete Safety Sys. 9190 Old Route 22 Bethel, PA 19507	**E** **M**	A1 B1 B2 B3 E1 E2 E3 E4 G1 G2 A1 B1 B2 B3 E1 E2 E3 E4 G1 G2
CONTN	Continental Concrete Prod., Inc. 1 South Grosstown Road Pottstown, PA 19464	**E** **M**	C D1 D2 D3 D4 D5 D6 D7 D8 D9 F1 F2 F3 F4 F5 C D1 D2 D3 D4 D5 D6 D7 D8 F3 F4
DUBK1	DuBrook, Inc. P. O. Box 388 DuBois, PA 15801	**E** **M**	A1 B1 B2 B3 A1 B1 B2 B3
EAGLE	Eagle Concrete Prod. P. O. Box 585 Somerset, PA 15501	**E** **E** **M**	A1 B1 B2 B3 B4 C D1 D2 D3 D4 D5 D7 D8 D9 E1 E2 E3 E4 F1 F5 F6 A1 B2 B3 B4 D1 D2 D3 D4 D5 D7 D8 D9 F5
FADD1	Faddis Concrete Products 3515 Kings Highway Dowingtown, PA 19335	**E** **M**	A1 B1 B2 B3 E1 E2 E3 E4 G1 G2 A1 B1 B2 B3 G1 G2
FADD2	205 West Washington Street New Castle, PA 16101	**E** **M**	A1 B1 B2 B3 E1 E2 E3 E4 G1 G2 A1 B1 B2 B3 E1 E2 E3 E4 G1 G2
FADD3	610 Heinterleiter Rd Kutztown, PA 19530	**A** **B**	A1 B1
FIHFC	Fi-Hoff Concrete Products, Inc. 240 Bentwood Avenue Johnstown, PA 15904	**E** **M**	C D1 D2 D3 D4 D5 D7 D8 F1 C D1 D2 D3 D4 D5 D7 D8 F1

SECTION 714
PRECAST CONCRETE PRODUCTS
See Item descriptions on initial page of Section

G&GSE	G & G Services 15 Country Club Rd P. O. Box 492 Washington, PA 15301	**E** **M**	D1 D5 D7 D8 D1 D5 D7 D8
GLNRM	Glenn Redi-Mix P. O. Box 5, Greenville Ave. Ext. Clarion, PA 18214	**E** **M**	D5 D6 D7 D8 F5 D5 D6 D7 D8 F5
HANS1	Hanson Pipe & Products, Inc. P. O. Box 955 Pottstown, PA 19464	**E** **M**	B1 B3 G1 G2 G1 G2
INTSS	Interstate Safety Service, Inc. P. O. Box O Clarks Summit, PA 18411 **Other Plant:** Steelton, PA	**E** **M** **E** **M**	A1 B1 B2 B3 A1 A1 B1 B2 A1 B2
KEYPC	Keystone Precast Concrete Products R.D. # 8, North Park Drive Kittanning, PA 16201	**E** **E** **M** **M**	A1 B1 B2 B3 C D1 D2 D3 D4 D5 D7 D8 E1 E2 E3 E4 F1 F5 F6 A1 B1 B2 B3 C D1 D2 D3 D4 D5 D7 D8 E1 E2 E3 E4 F1 F5 F6
KNOWL	Knowlton Constr. Supply Co. 450 W. Knowlton Rd. Media, PA 19063	**E** **M**	C D1 D2 D3 D5 D7 D8 D1 D2 D3 D5 D7 D8
MACK0	Mack Ind. of PA 2207 Sodom Hutchings Road Vienna, OH 44473	**E** **M**	A1 C D1 D2 D5 D7 D8 C D1 D2 D5 D7 D8
MCCAR	Bill McCarroll Precast R. D. #2 Dallas, PA 18612	**E** **M**	C D1 D2 D3 D5 D6 D7 D8 D9 F1 F5 C D1 D2 D3 D5 D6 D7 D8 D9 F1 F5

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SECTION 714
PRECAST CONCRETE PRODUCTS
See Item descriptions on initial page of Section

MILL0	Miller, A. C., Concrete Products P. O. Box 93, Rt 22 Blairsville, PA 15717	**E** **M**	D1 D2 D5 D6 D7 D8 G1 G2 D1 D2 D5 D6 D7 D8 G1 G2
MONAP	Monarch Products Co. Inc. 385 Sipe Road York Haven, PA 17370	**E** **M**	C D1 D2 D3 D4 D5 D7 D8 F1 C D1 D2 D3 D4 D5 D7 D8 F1
MONPC	Monarch Precast Concrete Corp. 425 North Dauphin Street Allentown, PA 18109-2199	**E** **M**	C D1 D2 D5 D7 D8 C D1 D2 D5 D7 D8
MPCP1	Modern Precast Concrete Products 2863 Brodhead Road Bethlehem, PA 18020 **Other Plant:**	**E** **M**	C D1 D5 D7 D8 F1 F3 C D1 D5 D7 D8 F1 F3
MPCP2	Ottsville, PA	**E** **M**	C D1 D5 D7 D8 F1 F3 C D1 D5 D7 D8 F1 F3
NEW-0	New Enterprise S & L Co. Concrete Products Div. P. O. Box 34 Roaring Springs, PA 16673	**E** **M**	B1 B2 C D5 D7 D8
NITT1	Nitterhouse Concrete Prod., Inc. P. O. Box N Chambersburg, PA 17201	**E** **M**	B2
P&PCP	Pipe & Precast Constr. Prod. P. O. Box 425 Old Phoenixville Pike Devault, PA 19432	**E** **M**	C D1 D5 D6 D7 D8 C D1 D5 D6 D7 D8

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SECTION 714
PRECAST CONCRETE PRODUCTS
See Item descriptions on initial page of Section

RAHN-	Rahn Constr. Matl's Co. 430 Bridge Road Rahns, PA 19426	**E**	C D1 D2 D3 D4 D5 D6 D7 D8
		M	C D1 D5 D6 D7 D8
ROTP1	Rotondo Precast 514 Township Line Road P. O. Box 210 Telford, PA 18969	**E**	B2
		M	
SCHUY	Schuylkill Prod., Inc. 121 River Street Cressona, PA 17929	**E**	G1 G2
		M	G1 G2
SCRCR	Scranton Craftsmen, Inc. 930 Dunmore Street Troop, PA 18512	**E**	**C** D1 D5 D7 D8
		M	**C** D1 D5 D7 D8
J&RS1	Slaw, J. & R., Inc. 588 S. Kittatinny Rd. P. O. Box D Bowmanstown, PA 18030	**E**	B1 B2 B3 G1 G2 G3
		M	G1 G2 G3
TERH0	Terre Hill Concrete Prod., Inc. P. O. Box 10 Terre Hill, PA 17581	**E**	C D1 D2 D3 D4 D5 D6 D7 D8 D9 F1 F3 F5
		M	D1 D2 D3 D4 D5 D6 D7 D8 D9 F1 F3 F5
TERH1	**Other Plant :** 42 South Butler Road Lebanon, PA 17042	**E**	C D1 D2 D3 D4 D5 D6 D7 D8 D9 F1
		M	D1 D2 D3 D4 D5 D6 D7 D8 D9 F1

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SECTION 714
PRECAST CONCRETE PRODUCTS
See Item descriptions on initial page of Section

URNA1 United Rentals Hwy Technologies, Inc.
4091 Saltsburg Road, Suite M
Murrysville, PA 15668
Plants:

URNA2 Windber
E A1 B1 B2 B3
M A1 B1 B2 B3

URNA4 New Holland
E A1 B1 B2 B3
M A1 B1 B2 B3

WATRF Waterford Precast & Sales, Inc.
511 Bagdad Road
Waterford, PA 16441
E D1 D5 D7 D8
M D1 D5 D7 D8

WILLA Williams, K. J. Concrete Co.
P. O. Box 5137
Cresaptown, MD 21505-5137
E G1 G2
M G1 G2

WINEC Wine Concrete Products, Inc.
1000 Big Sewickley Creek Road
Sewickley, PA 15143
E C D1 D2 D3 D4 D5 D7 D8 E1 E2 E3 E4 F1 F3 F5
M C D1 D2 D3 D4 D5 D7 D8 E1 E2 E3 E4 F1 F3 F5

WYOMG Wyoming Concrete Ind., Inc.
Railroad Ave. & Southern Blvd.
Wyoming, DE 19934
E A1 B2 B3
M A1 B2 B3

YORKB York Building Products, Inc.
1020 North Hartley St.
York, Pa 17404
E C D1 D2 D4 D5 D7 D8 F1 F2 F4
M

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SECTION 721
CALCIUM CHLORIDE: ASTM-D98

			REF. NO.
DOW-1	Dow Chemical Corp. 2040 Dow Center Midland, MI 48640	Dowflake 77-80% CaCl Liquiddow *30-42% CaCl	92-346 92-345
GENER	General Chemical Group 90 East Halsey Road Parsippany, NJ 07054	77-80% CaCl Flake	00-141
TETRA	Tetra Technologies, Inc. 25025 I 45N The Woodlands, TX 77380		97-076

SECTION 722
SODIUM CHLORIDE: Type 1, Grade 1
AASHTO M143 or ASTM D632

			REF. NO.
AMERS	American Rock Salt Co., LLC P.O. Box 190 Mount Morris, NY 14510	S. Lansing, Source Cleveland, OH Hampton Corners, NY	97-110B 97-110C 00-109
CARG0	Cargill, Inc. 24950 Country Club Blvd. Suite 450 North Olmsted, OH 44070	Lansing, NY Chile, S.A. Avery Island, LA Cleveland, OH	---------- 95-119
CONTS	Continental Salt, Inc. 654 Richmond Terrace Staten Island, NY 10301	Las Salinas, Dominican Republic	99-037
INTSA	International Salt P. O. Box 540, The Wellsley Bldg. 655 Northern Blvd. Clarks Summit, PA 18411-0540	Las Comdes, Santiago, Chile	97-104

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SECTION 722
SODIUM CHLORIDE: Type 1, Grade 1 (Continued)
AASHTO M143 or ASTM D632

			REF. NO.
MORTS	Morton Salt Co. 123 North Wacker Drive Chicago, IL 60606	Chile, S.A Fairport, OH Weeks Island, LA Windsor, Ontario	---------- 01-011
NAMSC	North American Salt Co. 8300 College Boulevard Overland Park, KS 66210	Goderich, Ont. Cote Blanche, LA	95-122A 95-122B
OCEAN	Oceanport Industries, Inc. P. O. Box 608 Claymont, DE 19703	Salinas De Lobos SAM or Santiago, Chile SA Claymont, DE Baltimore, MD Lima, Peru	---------- 97-131
ROCH1	Rochez Bros., Inc. 600 Ross Ave. Pittsburgh, PA 15221-2126	Braddock, PA Terminal Philadelphia, PA Terminal Newark, NJ Terminal	----------
UNSAL	United Salt Corp. 4800 San Felipe Houston, TX 77056	Evaporated Compacted Salt	97-073

SECTION 723
HYDRATED LIME: ASTM C207, Type N

		REF. NO.
CARML	Carmeuse Lime, Inc. Route 422 & Clear Springs Rd. Annville, PA 17003	02-036
GRAYM	Graymont (PA), Inc. 965 East College Ave. Pleasant Gap, PA 16823	88-128

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SECTION 724.2
FLY ASH
(Lime - ASTM C593; Cement Concrete - AASHTO M295, C or F)

◆ **Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.**

			REF. NO.
ASHDE	Ash/Dell P. O. Box 2-204 290 Bic Drive Milford, CT 06460	**Class F** Public Service Electric & Gas ◆ Mercer Station ◆ Hudson Station, Jersey City, NJ **(20% Minimum replacement to mitigate ASR)**	 96-084 97-176
BORAL	Boral Materials Technologies 45 N.E. Loop 410, Ste 700 San Antonio, TX 78216	**Class F** Belews Creek Plant Walnut Cove, NC Morgantown Plant Newburg, Maryland	 99-069 99-070
CINER	Cinergy Corporation 10800 Brower Road North Bend, OH 45052	**Class F** ◆ Miami Fort Power Station North Bend, OH Zimmer Power Station Moscow, OH	 02-175 03-052
COMPM	Combustion Products Mgmt., Inc. Sunburst Office Plaza 1541 Alta Drive, Suite 205 Whitehall, PA 18052	**Class F** ◆ Montour Steam Electric Station PP&L Washingtonville, PA Brunner Island Steam Electric Station PP&L, York Haven, PA **(Flowable Fill)**	 97-028
ESS-1	Essroc Materials Inc. Easton Road, Route 248 Nazareth, PA 18064	**Class C** Electric Energy, Inc. Joppa Power Plant, Harrisburg, IL. Rush Island Power Plant Festus, Missouri Terminal: Leetsdale, PA	 98-024 01-138
ESS10	Leetsdale, PA		
IRVFA	Irvine Fly Ash, Inc. 2303 Gilbert Ave. Cincinnati, OH 45206	**Class F** Indianna Kentucky El. ◆ Clifty Creek Plant Louisville Gas & Electric ◆ Trimble County Plant	 97-093 97-094

SECTION 724.2
Fly ASH (Continued)
(Lime - ASTM C593; Cement Concrete - AASHTO M295, C or F)

◆ **Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.**

			REF. NO.
ISGRS	ISG Resources, Inc. 4043 North Euclid Ave. Bay City, MI 48706	**Class F** Cleveland Electric Illuminating ◆ East Lake Unit 5 Ohio Edison, Stratton, OH ◆ Sammis Power Plant Appalachin Power Co. ◆ New Haven, WV American Electric Power Appalachin ◆ Power Co. John E. Amos plant Cayuga Power Plant Lansing, NY	 93-018 97-146 92-279 ---------- 02-056
LAFR13	Lafarge North America 20408 West Renwick Road Lockport, IL 60441-0089 Formerly: Mineral Solutions **(MNRLS)**	**Class C** American Electric Power Rockport, IN Wisconsin Electric Power Co Pleasant Prairie Plant **Class F** Allegheny Power ◆ Fort Martin Station ◆ Hatfield Power Station Lafarge Terminals: Federal White's Skyline, Northampton, PA Pennsy Supply, Paxton St., Hbg., PA	 92-052 97-085 86-312 89-196
LAFR16	Lafarge North America Great Lakes Region 4000 Town Center, Suite 2000 Southfield, MI 48075	**Approved alternate to Class F Fly Ash** ◆ Paulding, Ohio **(20% minimum replacement to mitigate ASR)**	 98-119

SECTION 724.2
Fly ASH (Continued)
(Lime - ASTM C593; Cement Concrete - AASHTO M295, C or F)

◆ **Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.**

			REF. NO.
LEH-0	Lehigh Portland Cement Co. 7660 Imperial Way Allentown, PA 18195	**Class N (Natural Pozzolin)**	
LEH-1	Plant: Union Bridge, MD	◆ Lehigh XPM, Type N	97-121
STECH	Seperation Technologies, Inc. 10 Kearney Road Needham, MA 02494-2512	**Class F**	
		◆ Brandon Shores Power Station Baltimore Gas & Electric, Balt., MD	99-082
		◆ Sunbury Generation LLC Shamokin Dam, PA	01-044
		U.S. Generating Somerset, MA	03-003
VFLTC	VFL Technology Corporation 16 Hagerty Blvd. West Chester, PA 19382-7594	**Class C**	
		Newton Generating Station Newton, IL	00-195

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SECTION 724.3
GROUND GRANULATED BLAST FURNACE SLAG
AASHTO M-302, (ASTM C-989) Grade 100 or 120 (cement partial replacement)

◆ **Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.**

			REF. NO.
ESS-4	ESSROC 8282 Middlebranch Road Middlebranch, OH 44652	◆ Essroc Slag **(Grade 120)** Middlebranch, OH	98-068
ESS10	Leetsdale, PA	Terminal	90-092
GFLH1	Glens Falls Lehigh Cement Co. 120 Alpha Road, Route 9W Catskill, NY 12414 Cementon Plant	◆ ALLCEM **(Grade 120)**	01-166
HOLCM	Holcim, Inc. 4996 Freedom Way Weirton, WV 26062	◆ GranCem Cement **(Grades 100 & 120)** Weirton, WV ◆ GranCem Cement **(Grade 120)** Birmingham, AL	91-281 03-102
LAFR0	Lafarge North America, Northeast Region 606 Cathcart St., Suite 800 Montreal, Quebec, Canada H3B 1L7		
LAFR11	Sparrows Point Plant Baltimore, MD	◆ NewCem **(Grades 100 & 120)** Terminal, 26th & Penrose, Phila.	93-213 93-230
LAFR15	Lafarge North America Great Lakes Region, Chicago, IL	◆ NewCem **(Grade 120)**	03-002
LEH-0	Lehigh Portland Cement Co. 7660 Imperial Way Allentown, PA 18195	◆ ALLCEM **(Grade 100)**	93-408
LEH-3	Evansville, PA	◆ ALLCEM **(Grade 120)**	01-058

SECTION 724.3
GROUND GRANULATED BLAST FURNACE SLAG
AASHTO M-302, (ASTM C-989) Grade 100 or 120 (cement partial replacement)

◆ **Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.**

			REF. NO.
LONST	Lone Star Industries 14900 Intracoastal Drive New Orleans, LA 70129	◆ AUCEM **(Grade 120)**	03-058
SLCC0	St. Lawerence Cement Co. L.L.C. US Division 3 Columbia circle Albany, NY 12203	◆ GranCem Cement **(Grade 100)** Minimum replacement level of 30% Mississauga, Ontario	00-087
		◆ GranCem Cement **(Grade 120)** Camden, NJ	00-300
WAYLT	Waylite Corporation RR # 5, Box 5165, Easton Road Bethlehem, PA 18015	◆ Waycem **(Grade 100)** Bethlehem, PA	

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SECTION 724.4
SILICA FUME
AASHTO M-307

◆ **Provisional Approval : MTD must be contacted prior to use. (717) 787-2489**

			Ref. No.
ELKMM	Elkem Materials, Inc. P. O. Box 266 Pittsburgh, PA 15230 Plant Location: Alloy, WV	EMS-965 EMS-970DA (Dry) EMS-970S (Liquid)	84-111
GRAC0	W. R. Grace Co. 62 Whittmore Ave. Cambridge, MA 02138	Force 10,000	86-041
MAST0	Master Builders, Inc. 23700 Chagrin Blvd. Cleveland, OH 44122	◆ Rheomac SF 100	97-189
SIKA1	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302	Sika Crete 950	90-216

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SECTION 735
GEOTEXTILES

	Company	Geotextile	Class	Type	Ref. No.
AMEEF	American Engineering Fabrics 1 Coffin Avenue New Bedford, MA 02746	AEF 680 AEF 880	2 2	B B	00-239B 00-240
AMOFF	Amoco Fabrics & Fibers Co. 260 The Bluffs Austell, GA 30168	ProPex 1198	2	A	86-266
		ProPex 1198	3	A	89-306
		ProPex 2000	2	B	86-303
		ProPex 2000	3	B	86-304
		ProPex 2002	2	A & B	96-219
		ProPex 2006	2	B	86-216
		ProPex 2016	2	A	91-278
		ProPex 2019	2	A	94-299
		ProPex 2130	3	B	91-324
		ProPex 4510	4	A	97-066
		ProPex 4512	4	A	87-106
		ProPex 4516	4	A	87-107
		ProPex 4551	2	B	88-012
		ProPex 4551	1		90-161
		ProPex 4550	2	B	87-370
		ProPex 4553	2	B	87-372
		ProPex 4553	1		90-162
		ProPex 4547	2	B	85-005
		ProPex 4545	2	B	02-137

SECTION 735
GEOTEXTILES (Continued)

	Company	Geotextile	Class	Type	Ref. No.
BELTN	Belton Industries P.O. Box 127 Belton, SC 29627	Belton 751 Belton 776 Beltech 150 / 874 Beltech 200 / 880 Beltech 884	3 2 2 3 4	B B B A B	87-306 88-168 98-064 99-137 01-132
CADYB	Cady Industries 509 North King Street Pearson, GA 31642	CSF 330	3	B	95-212
DUPT2	E. I. DuPont Co. Dupont Tyvek 4417 Lancaster Pike, Bldg. 728 Chestnut Run Plaza, Room 3225 Wilmington, DE 19805 Plant: Luxembourg	Dupont SF 49	1		02-016
GSELT	GSE Lining Technology, Inc. 19103 Gundle Road Houston, TX 77073	NW6 NW6 NW8 NW8 NW4	1 2 & 3 1 2 & 3 2 & 3	 B B B	02-121 02-121 02-122 02-122 02-123

SECTION 735
GEOTEXTILES (Continued)

Company	Geotextile	Class	Type	Ref. No.
LINQ1- LINQ Industrial Fabrics, Inc. 2550 West 5th North Street Summerville, SC 29483-9699	GTF-110	2	B	96-009
	GTF-110	3	B	87-265
	125 EX	2 & 3	B	96-009
	GTF-150	2 & 3	B	87-262 & 66
	GTF-180	3	B	91-191
	GTF-200	2 & 3	A	96-091
	GTF-200	2	B	84-063
	GTF-200S	2 & 3	B	93-191 & 94-197
	250 EX	4	A	89-066
	GTF-300	2	A & B	84-063 & 99-119
	150 EX	1		01-027
	GTF-190	3	B	01-090

SECTION 735
GEOTEXTILES (Continued)

	Company	Geotextile	Class	Type	Ref. No.
NICL0	Nicolon Corporation	Geolon 400	2	B	88-069
NICL1	T. C. Mirafi, Division of Nicolon	Filterweave 401	2	A & B	88-060 & 61
	365 South Holland Drive	Filterweave 700	2		88-070
	Pendergrass, GA 30567	Filterweave 400	2	A	87-443
		Filterweave 400	3	A	87-146
		Mirafi 140N	2	B	93-112
		Mirafi 500XP	2	B	95-279
		Filterweave 700	2	A & B	86-164
		Filterweave 700	3	A	87-114
		Filterweave 402	2	A	87-427
		Mirafi 1100N	4	A	88-193
		Mirafi 1100NP	4	A	93-406
		Mirafi 1120N	4	A	96-229
		Mirafi 190N	4	A	93-111
		Mirafi 160N	1		01-018
		Filterweave 404	2	A	01-075
		Mirafi HP 565	4	B & C	01-077
		Mirafi HP 570	4	B	01-111
		Mirafi 500X	3	A	03-081
REEMA	Reemay, Inc.	Typar 3601	1		88-138
	70 Old Hickory Blvd.	Typar 3601	2	B	---------
	Old Hickory, TN 37138-3651	Typar 3301	3	B	87-183
		Typar 3501	1		01-035
SKAPS	Skaps Industries NonWoven Div.	GE 110	4	A	03-137
	316 South Holland Drive	GT 180	1		03-140
	Pendergrass, GA 30567				

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SECTION 735
GEOTEXTILES (Continued)

	Company	Geotextile	Class	Type	Ref. No.
SYNT0	SI Geosolutions	Geotex 501	2	B	93-252B
	4019 Industry Drive	Geotex 1201	4	A	93-252E
	Chattanooga, TN 37416	Geotex 111F	2	A	94-102
SYNT1	Ringgold, GA	Geotex 351	2	B	96-069G
SYNT2	Chickamauga, GA	Geotex 135ST	2	B	96-069B
		Geotex 200ST	2	A	96-069C
		Geotex 1001	4	A	97-199
		Geotex 1101	4	A	94-021
		Geotex 104F	2	A	96-221
		Geotex 915SC	3	B	00-086
		Geotex 601	1		01-051
		Geotex 4x4	4	B	01-052
		Geotex 200ST	2	B	01-112
		Geotex 4x6	4	C	01-053
TERAM	Terram Limited	Terram 1300 UVDG	1		02-028
	Mamhilad, Pontypool	Terram 2000 UVDG	1		02-029
	Gwent NP4 OYR	Terram 900 UVDG	2	B	02-030
	United Kingdom	Terram 1300 UVDG	2	B	02-031
TNSAT	TNS Advanced Technologies	W200	2	A	96-142
	681 DeYoung Road	W200	3	A	96-143
	Greer, SC 29651	TNS R035	2	B	96-145
		TNS E100	4	A	96-150
		R060	1		01-012
		W-280	2	B	01-055

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SECTION 736
GEOMEMBRANE
High Density Polyethylene (HDPE)

	Manufacturer	Type	Ref. No.
AGRUA	Agru America, Inc. 700 Rockmead, Suite 150 Kingwood, TX 77339	A/A Liner	99-196
GSELT	GSE Lining Technology, Inc. 19103 Gundle Road Houston, TX 77073	GSE Hyperflex	99-189
RAVEN	Raven Industries, Inc. 1812 " E " Avenue Sioux Falls, SD 57104	Rufco 3300B	01-125
SOLMX	Solmax International, Inc. 2801 Marie-Victorin Blvd. Varennes, Quebec, Canada, J3X 1P7	400 Series	00-148

SECTION 737
GEOCELL CONFINEMENT SYSTEMS

	Manufacturer	Type	Ref. No.
GEOPR	Geo Products 8615 Golden Spike Lane Houston, TX 77086	TerraCell	01-122
PREST	Presto Products Company P.O. Box 2399 Appleton, WI 54912-2399	GeoWeb GW20V	01-063

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SECTION 805.2(a)1(a thru d) & 2(a thru f): Bureau Design
MULCHING

1.a Hay
1.b Straw
1.c Wood fiber
1.d Pellet Mulch

2.a Tanbark
2.c Shredded bark
2.d Washed gravel
2.e Crushed aggregate

2.f Sewage sludge Compost
2.g Wood Chips
2.h Spent Mushroom Soil Compost

		PRODUCT	TYPE	REF. NO.
AMEE1	Am. Excelsior Co. 850 Avenue H, East P. O. Box 5067 Arlington, TX 76011	Excel Wood Fiber Mulch II	(1.c)	92-313
CONW1	Conwed Fibers 219 Simpson Street Conover, NC 28613	Hydro-Mulch 2000	(1.c)	90-279
LAUVS	Laurel Valley Soils P.O. Box 640 Avondale, PA 19311	LVS Horticultural Compost LVS Premium Compost	(2.h) (2.h)	03-013 03-013
L&W-D	L. & W. Demolition Co. Inc. 2224 Paxton St., Rear Harrisburg, PA 17111	Shredded Bark	(2.c)	91-029
MATTT	Mat, Incorporated 12402 Highway 2 Floodwood, MN 55736	Mat Fiber Plus	(1.c)	92-150D
NYPPR	New York Pellet Products, Inc. 274 Sandusky Road Arcade, NY 14009	PennMulch	(1.d)	96-163

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SECTION 805.2(b) : Bureau Design
MULCH BINDERS

1. Recycled Cellulose Fiber
2. Wood Fiber (See 805.2(a)1.c)
3. Nonasphaltic Emulsion
4. Polyvinyl Acetate
5. Recycled Cellulose Fiber/wood Fiber mixture

		PRODUCT	TYPE	REF. NO.
ACAEP	Acadia Eco-Products, Inc. 5217 Main Road Sweet Valley, PA 18656	Earth Bond	(b)3	02-017
AMEE1	American Excelsior Co. 850 Avenue H, East P. O. Box 5067 Arlington, TX 76011	AM-TAC	(b)3	90-278
CENTF	Central Fiber Corp. 4814 Fiber Lane Wellsville, KS 66092	Second Nature Wood Fiber SprayMatt	(b)1 (b)1	91-182 97-071
CONW1	Conwed Fibers 219 Simpson Street Conover, NC 28613	Contack	(b)3	90-280
MATTT	Mat, Incorporated 12402 Highway 2 Floodwood, MN 55736	Mat Blend Mat Blend Plus	(b)1 (b)1	92-150A 92-150B
PINNA	Pinnacle Industries 160 Wilber Place Bohemia, NY 11716	Evergreen Fiber Mulch	(b)1	94-013
PLWBC	Plant Wise Biostimulant Co. 1402 West Main Street Louisville, KY 40203-1328	TAC-L	(b)3	01-082
PRSMT	PRS Materials, Inc. P. O. Box 1409 Collingdale, PA 19023-8409	Mulchmate Hydro Tac Quickseed	(b)3 (b)1	87-187
WOODR	Wood Recycling Inc. 3 Wheeling Ave. Woburn, MA 01801	Re-fiber Wood w/tackifier Re-fiber Cellulose	(b)5 (b)1	93-217B 94-004

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SECTION 805.2(c) : Bureau of Design
MULCH CONTROL NETTING

1. Plastic Netting

2. Coconut Coir

		PRODUCT	TYPE	REF. NO.
ATLEX	Atlantic Extrusions Corp. 96 Swamp Scott Road Salem, MA 01970	Netting #6305120G	(c)1	88-300
BELTN	Belton Industries P. O. Box 127 Belton, SC 29627	Dekowe Geonet	(c)2	----------
CONW1	Conwed Fibers 219 Simpson St. Conover, NC 28613	Conwed EC Net	(c)1	89-107
TENX0	Tenax Corporation 4800 East Monument St. Baltimore, MD 21205	Ornex LM	(c)1	99-036

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SECTION 805.2(d) : Bureau Design
WEED BARRIER MAT

1. Weed Barrier Mat **2. Weed Control Mat**

		PRODUCT	TYPE	REF. NO.
LINQ2	LINQ Industrial Fabrics 2550 W. Fifth North St. Summerville, SC 29483-9699	GTF 200 WBM GTF 200S 125EX	(d)1. (d)1. (d)1.	91-329 94-197 99-120
REEMA	Reemay Inc. PO Box 511 70 Old Hickory Blvd. Old Hickory, TN 37138-3651	Biobarrier II	(d)2.	94-304
WEBTE	Webtec, Inc. P. O. Box 19729 Charlotte, NC 28219	Terra Top WC Terra Tex NO3 Terra Tex NO4	(d)1. (d)1. (d)1.	---------- 96-125 86-295

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SECTION 805.2(g) : Bureau Design
BONDED FIBER MATRIX

1. Polymer or Hydrocolloid Binder Matrix

2. Gypsum Binder Matrix

		PRODUCT	TYPE	REF. NO.
CONW1	Conwed Fibers 219 Simpson Street Conover, NC 28613	Conwed 3000	(g)1.	98-153
MATTT	Mat, Incorporated 12402 Highway 2 Floodwood, MN 55736	Soil Guard	(g)1.	96-046
PRSMT	PRS Materials, Inc. P. O. Box 1409 Collingdale, PA 19023	Fibre Mat	(g)1.	97-133
USGY1	U. S. Gypsum Co. Industrial Gypsum Division P.O. Box 803871 Chicago, IL 60680-3871	Airtrol	(g)2.	94-114
WOODR	Wood Recycling, Inc. 3 Wheeling Avenue Woburn, MA 01801	HydroBlanket	(g)1.	97-132A

SECTION 806.2 : Bureau Design
WATER COURSE EROSION PROTECTION

(a)1 EC Mat
(a)2 EC Mulch Blanket
2.a Organic Mulch Material
2.b Reprocessed Wood Fiber
(a)3 Hi-Velocity EC Mulch Blanket
(b) TRM
(c)1 ECRM Type A
(c)2 ECRM Type B
(d) Anchoring Devices
(h) Fiber Roving System

		PRODUCT	TYPE	REF. NO.
ABITC	Abitec, Inc. 105 Grove Circle Chalfont, PA 18914	Jute Mat	(a)1	99-192
AMEE0	American Excelsior, Co 850 Ave. H East P. O. Box 5067 Arlington, TX 76011	Curlex I Excel Blanket Curlex Quickgrass Curlex II Excel Blanket Curlex III (HV) Recyclex-TRM	(a)2 a (a)2 a (a)3 (a)3 (b)	82-029 ---------- ---------- ---------- 02-009
BELTN	Belton Industries P. O. Box 127 Belton, SC 29627	Antiwash Dekowe 700 Dekowe 900	(a)1 (a)1 (a)1	87-373 90-111A ----------
COLBD	Colbond Geosynthetics Sand Hill Road P. O. Box 1057 Enka, NC 28728	Enkamat 7010 Enkamat 7210 Enkamat 7020 Enkamat 7220	(c)1 (c)1 (b) (b)	93-218 93-219 78-055 93-220
CONW1	Conwed Fibers. 219 Simpson St Conover, NC 28613	Futerra Mat	(a)2 b	92-219
EACEB	East Coast Erosion Blankets, LLC. 555 Mountain Home Road Sinking Springs, PA 19608	ECS-1 ECS-2 Straw ECSC-2 Straw Coconut ECS-2D Temporary Straw	(a)2 a (a)3 (a)3 (a)3	03-027 03-028 03-029 03-031

SECTION 806.2 : Bureau Design
WATER COURSE EROSION PROTECTION

(a)1 EC Mat
(a)2 EC Mulch Blanket
2.a Organic Mulch Material
2.b Reprocessed Wood Fiber
(a)3 Hi-Velocity EC Mulch Blanket
(b) TRM
(c)1 ECRM Type A
(c)2 ECRM Type B
(d) Anchoring Devices
(h) Fiber Roving System

		PRODUCT	TYPE	REF. NO.
ECS-P	Erosion Control Systems, Inc. 9015 Energy Lane Northport, AL 35476	Proguard S1 Proguard S2 Everhold XL1 Everhold XL2	(a)2 a (a)3 (a)3 (a)3	91-288A 91-288B 91-301A 91-301B
ENVI1	Enviroscape ECM, Ltd. 22700 State. Rte. 613 Oakwood, OH 45873	S2000 S1000	(a)3 (a)2.a	03-083 03-082
G&GF0	G & G Fabricating Co. 930 Henderson Blvd. #12 Folcroft PA 19032	XCEL R1 ECB XCEL Hi-velosity ECB G & G Jute Mat	(a)2 a (a)2 a (a)1	96-058 93-114 96-098
GEO-C	Geo Crafts, Inc. 154 W Church Street P. O. Box 297 Nanticoke, PA 18634	H2M6 H2M8 H2M9	(a)1 (a)1 (a)1	92-082A 92-082B 92-092C
GREES	Greenstreak Plastic Prod. 3400 Tree Ct. Ind. Pk. St. Louis, MO 63177	Pec-Mat (ECRM)	(c)2	87-198
INDVA	Indian Valley Industries 100 Corliss Avenue Johnson City, NY 13790	Jute Mesh	(a)1	94-160
JOHNS	Johnston-Morehouse Dickey Co. 5401 Progress Blvd. P. O. Box 173 Bethel Park, PA 15102	JMD Jute Mesh	(a)1	88-154

SECTION 806.2 : Bureau Design
WATER COURSE EROSION PROTECTION

(a)1 EC Mat
(a)2 EC Mulch Blanket
2.a Organic Mulch Material
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(b) TRM
(c)1 ECRM Type A
(c)2 ECRM Type B
(d) Anchoring Devices
(h) Fiber Roving System

		PRODUCT	TYPE	REF. NO.
NOAMG	North American Green 14649 Highway 41 North Evansville, IN 47711	S75 ECB	(a)2 a	90-118
		DS75 ECB	(a)2 a	90-119
		DS150 ECB	(a)2 a	90-121
		S150 ECB	(a)3	90-120
		SC150 ECB	(a)3	90-122
		C125 ECB	(a)3	90-124
		P300P TRM	(b)	91-190
		C350 ECB	(a)3	95-018
		C350 TRM	(b)	02-057
		C350 ECRM	(c)1	02-057A
NYPPA	NYP Corporation, PA Division 10 Site Road Leola, PA 17540	JM 48 ECM	(a)1	01-222
ROBEX	Robex LLC 5830 Highway 161 Springfield, TN 37172	RobexShield RS-1	(a)2 a	01-069
		RobexShield RS-2	(a)3	01-070
SYNT0	SI Geosolutions 4019 Industry Drive Chattanooga, TN 37416	Landlok Geomat 1060	(c) & (b)	91-178
		Landlok Geomat 450	(c)	91-179
		Landlok TRM 455	(b)	96-257
		Landlok 407GR **(polyjute)**	(a)1	92-254
		Pyramat	(b)	96-024
		Landlok FRS 3112	(h)	96-023
		Landlok TRM 435	(c)1	99-015
		Bon Terra CS2 ECB	(a)3	91-210
		Bon Terra C2 ECB	(a)3	91-211
		Bon Terra S1 ECB	(a)2 a	91-212
		Bon Terra S2 ECB	(a)3	91-213
		Bon Terra SFB 8	(c)1	00-100

SECTION 806.2 : Bureau Design
WATER COURSE EROSION PROTECTION

(a)1 EC Mat
(a)2 EC Mulch Blanket
2.a Organic Mulch Material
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(a)3 Hi-Velocity EC Mulch Blanket
(b) TRM
(c)1 ECRM Type A
(c)2 ECRM Type B
(d) Anchoring Devices
(h) Fiber Roving System

		PRODUCT	TYPE	REF. NO.
TENX0	Tenax Corporation 4800 East Monument St. Baltimore, MD 21205	Multimat 100 Multimat 100	(b) (c)1	98-202 98-203
VERD0	Verdyol Alabama, Inc. 407 Miles Parkway P. O. Box 605 Pell City, AL 35125	ERO-MAT std. High Vel. ERO-MAT Std. Excelsior High Vel. Excelsior ERO Mat Blanket	(a)2.a (a)3 (a)2.a (a)3 (a)2	92-042 92-043 92-044 92-045 84-065
WEBTE	Webtec, Inc. P. O. Box 19729 Charlotte, NC 28219	Terra Jute	(a)1	88-118
WESEX	Western Excelsior Corporation 901 Grand Avenue P.O. Box 659 Mancos, CO 81328	EXCEL R1 ECB S2 XCEL SD3 XCEL Permamat 200F Permamat 100 Permamat 150F ECB XCEL SR-1 XCEL SR-1 **Rapid-Go** XCEL SS-2 XCEL SS-2 **Rapid-Go** XCEL CS-3 XCEL CC-4 XCEL PP-5-10 XCEL S-2 XCEL PP-5-10	(a)2.a (a)3 (a)3 (a)3 (a)3 (a)3 (a)2.a (a)2.a (a)3 (a)2.a (a)3 (a)3 (c)1 (a)2.a (b)	85-201 96-154A 96-154B 96-154C 96-154D 96-154E 01-004 01-005 01-006 01-007 01-008 01-009 01-010 01-061 01-060

SECTION 808.2(a)6 : Bureau Design
SUPERCONCENTRATED WATER ABSORBENT GEL

		PRODUCT	REF. NO.
HORTA	Horticultural Alliance, Inc. P. O. Box 5744 Sarasota, FL 34239	Horta-Sorb SM	98-161

SECTION 808.2(d) : Bureau Design
FERTILIZER

		PRODUCT	REF. NO.
UNIQF	U.F.I 205 Caulfield Avenue Deptford, NJ 08096	The Unique Feeder 16-8-16 Packet 4 oz	----------

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SECTION 808.2(g) : Bureau Design
SOIL AMENDMENTS

1. Peat
2. Paper Mill Compost
3. Sewage Sludge Compost
4. Compost
5. Water Absorbent Polymer
6. Mycorrhizal Inoculation
   a.) Trees
   b.) Seedlings & Transplants
7. Spent Mushroom Soil Compost

		PRODUCT	TYPE	REF. NO.
HORTA	Horticultural Alliance, Inc. P. O. Box 5744 Sarasota, FL 34239	Horta-Sorb LG Diehard Transplant	5 6.a	98-160 98-179
LAUVS	Laurel Valley Soils P.O. Box 640 Avondale, PA 19311	LVS Horticultural Compost LVS Premium Compost	7 7	03-014 03-014
PHILA	Philadelphia Water Department 1101 Market Street Philadelphia, PA 19107	Earth Mate	3	95-117
PLTHC	Plant Health Care, Inc. 440 William Pitt Way Pittsburgh, PA 15238	Mycor Tree Saver Mycor Tree Root Dip	6.a 6.b	98-166 98-167
UAJA-	University Area Joint Authority 1576 Spring Valley Road State College, PA 16801	UAJA Compost	3	93-141

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SECTION 808.2(i)3 : Bureau Design
COLLAR STRAP ATTACHMENTS

		PRODUCT	REF. NO.
KESLK	Keslick & Son 214 North Penn St. West Chester, PA 19380	CambGuards	96-033
NEPTC	Neptco, Inc. 30 Hamlet St. Pawtucket, RI 02861	ArborTie	95-277

SECTION 808.2(j) : Bureau Design
TREE PROTECTORS

		PRODUCT	REF. NO.
JUDDT	Judd Tree Guard Co. 105 Mingo Church Road Finleyville, PA 15332	Judd Tree Guards (Metal Guards)	----------

SECTION 808.2(s) : Bureau Design
TIME RELEASE WATER

		PRODUCT	REF. NO.
DRIWA	Driwater, Inc. 50 Old Court House Square Suite 606 Santa Rosa CA 95404	Driwater	95-186

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SECTION 857

CONCRETE BLOCK REVETMENT SYSTEMS

◆ **Note: Companies listed below are licensors only and not approved precasters.**

Licensor	Revetment Block Systems
◆ International Erosion Control Systems	❶ Cable Crete
◆ Armortec Concrete Erosion Control Systems	❷ Armorflex
◆ Armortec Concrete Erosion Control Systems	❸ Armorloc
◆ Armortec Concrete Erosion Control Systems	❹ A-Jacks

PRECASTERS		SYSTEMS	REF. NO.
BETPR	Bethlehem Precast, Inc. 835 East North Street Bethlehem, PA 18017	❶	99-142
YORKB	York Building Products, Inc. 1020 North Hartley St. York, PA 17404	❷ ❸ ❹	00-188 00-189 00-190

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SECTION 865
GEOTEXTILE SILT FENCE FABRICATORS
(Geotextiles, Class 3, Type A or B of Section 735)

◆ = With Approved Mesh P.S. = Post Spacing

	Name	Height	Type	P.S.	REF. NO.
AMEE1	American Excelsior Co. 850 Avenue H, East P. O. Box 5067 Arlington, TX 76011	Silt Fence	18"	B	4'	89-155A
CANCP	Canco Products 1209 Horsham Rd. Ambler, PA 19002	Canco **(Preassembled)**				86-087
		C-148-B	18"	B	4'	91-089
		C-188-BN	18"	B	8' ◆	91-099
		C-304-BN	30	B	4' ◆	91-119
INDVA	Indian Valley Industries 100 Corliss Avenue Johnson City, NY 13790	1813-PA	18”	B	4’	01-019A
		3013-PA	30”	B	8’ ◆	01-019B
JOHNS	Johnston-Morehouse Dickey Co. 5401 Progress Blvd. Berthel Park, PA 15102	JMD 3B	18"	B	4'	88-159
		JMD 3B	18"	B	8' ◆	90-082
		JMD 3A	18"	A	8'	90-135
		JMD 3A	30"	A	8' ◆	01-089
		JMD 3B	30"	B	4' ◆	88-282
MUTAL	Mutual Industries 707 West Grange St. Philadelphia, PA 19120	PA DOT 3B18	18"	B	4'	94-156A
		PA DOT 3B18	18"	B	4' ◆	94-156B
		PA DOT 3B30	30"	B	4'	94-156C
		PA DOT 3B30	30"	B	4' ◆	94-156D
NICL1	Mirafi, Inc., Div. Nicolon P. O. BOX 240967 Charlotte, NC 28224	w/m support	18"	B		88-115
		w/m support	18"	A		88-116

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SECTION 865
GEOTEXTILE SILT FENCE FABRICATORS
(Geotextiles, Class 3, Type A or B of Section 735)

◆ = With Approved Mesh P.S. = Post Spacing

		Name	Height	Type	P.S.	REF. NO.
ROBER	Roberts, Frank & Sons, Inc. R. D. #2 Punxsutawney, PA 15767	FR 110-278M	18"	B	8' ◆	88-125
		FR 180-304 Blue	18"	B	4'	91-372
		FR 400-308 White	18"	A	8'	91-370
		FR 400-428M Red	30"	A	8' ◆	91-371
		FR 180-424M Black	30"	B	4' ◆	91-373
WEBTE	Webtec, Inc. P. O. Box 19729 Charlotte, NC 28219	P-Fence Cl 3MB	18"	B	8'	87-138
		P-Fence Cl 3B	18"	B	4'	87-139
		P-Fence 303A	18"	A	8'	91-390
		P-Fence 303B	18"	B	4'	91-391
		P-Fence 423AM	30"	A	8' ◆	91-392
		P-Fence 423BM	30"	B	4' ◆	91-393

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Monday, April 26, 2004

SECTION 901 : Traffic Div
TRAFFIC ACCOMMODATION AND CONTROL

ARROW PANEL

VP = Vehicle powered (12 volt)
GP = Gas powered
DP = Diesel powered

BP = Battery
SP = Solar Battery
Size is in inches

T = Trailer (/s = skid)
V = Vehicle (/s = skid)

◆ **May Only Be Used On Stationary Operations and Must Be Aimed Every Time it is Set up or Moved.**

	Company Name	Model	Power	Size	Mount	Ref No.
AMIDA	Amida Ind., Inc. P. O. Box 3147 Rock Hill, SC 29731	DL25-FACH-DLO/4 DLB-15-FACH-E900 DLB-25-FACH-E900 DLSB-15-ODLX4650	DP BP BP BP	96x48 96x48 96x48 96x48	T T T T	83-134 89-079 89-091 93-164
BEMIS	Bemis Division, Allmand Brothers, Inc. P. O. Box 888 Holdrege, NE 68949-0888	KO25CTA LO25CTA PE25CTA LI25CTA ◆ 2200/SE 96-SER-3-F-S"Elipse" (Retro-Fit-Kit for 2200/SE)	GP DP DP DP SP	48x96 48x96 48x96 48x96 48x96	T T T T T	AB-7 ---------- ---------- ---------- 92-094 96-178
COLEM	Coleman Engineering 1020 South Bellevue Memphis, TN 38106	Coleman AB-15	DP	96x48	T	89-092
CROCE	Crown Construction Equipment 330 Saulteaux Cres. Winnipeg, Manitoba Canada R2J 3T2	AB15 AB25	SP SP	48x96 48x96	T T	AB-27 AB-27
DISPL	Display Solutions, Inc. 6301 Best Friend Road Norcross, GA 30071	Sunray Solar 15 Lamp Sunray Solar 25 Lamp	SP SP	48x96 48x96	T T	01-203 01-204
FEDER	Federal Construction Products 2645 Federal Sign Drive University Park, IL 60466	RW-1FA	DP	96x48	T	88-169

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

ARROW PANEL

VP = Vehicle powered (12 volt)
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Size is in inches

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	Company Name		Model	Power	Size	Mount	Ref No.
HI-TE	Hi-Tech Enterprises, Inc. Pinellas Park, FL 33782	◆	Arrow Plus S-15/184	SP SP	48x96 48x96	T T	92-068 92-068
HI-VU	Hi-Vu, Inc. 1000 E. 9th Street Indianapolis, IN 46202		TM4815SE TM4815SG TM4815SD TM4815CE TM4815CG TM4815CD TM4825SE TM4825SG TM4825SD AO4815 AO4815DTM-E AO3615 AO3060-15 AO2413	BP GP DP BP GP DP BP GP DP VP BP VP VP VP	48x96 48x96 48x96 48x96 48x96 48x96 48x96 48x96 48x96 48x96 48x96 36x72 30x60 24x48	T T T T T T T T T V V V V V	85-112 85-113 85-111 85-109 85-110 85-108 ---------- ---------- ---------- 85-104 85-105 85-103 85-101 85-100
INTTC	International Traffic Control Prod. FM 2169, P.O. Box 24 Junction, TX 76849		ITCP 15L	SP	48x96	T	99-001
MICHA	Michael Duddy Electric RD #2, Route 19 Volant, PA 16156		A A-1	DP DP	96x48 96x48	T	87-078A 87-078B
NATSG	National Signal, Inc. 14657 Industry Circle La Mirada, CA 90638		Sun-Up 15L100W TM Aro-Lite 15L100W TM DDP 244813L DDP 306013L VM DDP 306015L VM DDP 367215L VM DDP 489615L VM	SP SP VP VP VP VP VP	96x48 96x48 48x24 60x30 60x30 72x36 98x48	T T V V V V V	COA/AB-26

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

ARROW PANEL

VP = Vehicle powered (12 volt)
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BP = Battery
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Size is in inches

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◆ **May Only Be Used On Stationary Operations and Must Be Aimed Every Time it is Set up or Moved.**

	Company Name	Model	Power	Size	Mount	Ref No.
PROTE	Protection Services, Inc.					AB-2
	635 Lucknow Road	PFAW-M-72	DP	96x48	T	----------
	Harrisburg, PA 17110	PFAW-M-78	DP	96x48	T	----------
		PFAW-M-78-25	DP	96x48	T	----------
		PFAW-M-85-25	DP	96X48	T	----------
		PFAW-M-85-FA	DP	96X48	T	----------
		PFAW-M-FA-SA	DP	96x48	T	----------
		PFAW-M90-SKMT	BP	96x48	V/s	----------
		PFAW-M93-SA	SP	96x48	T/s	95-101
		PFAW-M93-SA(M90-D)	SP	96x48	T	95-170
		PFEL-M-78	BP	96x48	T	----------
		PFEL-VM-87	VP	72x36	V	87-110
		PFVM-80-13	VP	48x24	V	81-063
		PFVM-80-15	VP	48x24	V	82-069
		PFVM-SB-15	VP	48x24	V	----------
		PEVM-6030-15	VP	60x30	V	92-349
		◆ P-O-F M-90A,B & C	SP	96x48	T	90-155
SERVM	Service & Materials Co., Inc.	1950-A-D	DP	48x96	T	---------
	4835 East County Road 600	1950-ACHAS-D	DP	48x96	T	---------
	Sunman, IN 47041	1953-A-D	DP	48x96	T	---------
		3001-ACHAS	VP	36x72	V	---------
		3001-A	VP	36x72	V	---------
		1950-ACHAS	GP	48x96	T	---------
		1950-A	GP	48x96	T	---------
		3000-AH	VP	24x48	V	---------
		1955-Trailer Train	DP	48x96	T	---------

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

ARROW PANEL

VP = Vehicle powered (12 volt)
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BP = Battery
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Size is in inches

T = Trailer (/s = skid)
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◆ **May Only Be Used On Stationary Operations and Must Be Aimed Every Time it is Set up or Moved.**

	Company Name	Model	Power	Size	Mount	Ref No.
SIGVM	Signalisation Ver-Mac, Inc. 2520 Watt Street Ste-Foy, Quebec Canada G1P 3T4	VM-95S	SP	96x48	T	97-155
SOLAT	Solar Technology, Inc. 6560 Stonegate Drive Allentown, PA 18106-9239	◆ AB-2025	SP	48x96	T	92-041
		◆ AB-2015	SP	48x96	T	92-041
		AB-2025 (WB)	SP	48x96	T	92-268
		AB-2015 (WB)	SP	48x96	T	92-269
		AB-0515-D (LED)	SP	48x96	T	96-251
		AB-0715-D (LED)	SP	48x96	T	96-251
		AB-1015-D (LED)	SP	48x96	T	96-251
		AB-1515-D (LED)	SP	48x96	T	96-251
		AT-0515	SP	48x96	V	AB-20
		AT-0715	SP	48x96	V	AB-20
TERKC	Terrain King Corp. P. O. Drawer 549 Sequin, TX 78155	Flagman	DP	96x48	T	81-029

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

ARROW PANEL

VP = Vehicle powered (12 volt)
GP = Gas powered
DP = Diesel powered

BP = Battery
SP = Solar Battery
Size is in inches

T = Trailer (/s = skid)
V = Vehicle (/s = skid)

◆ **May Only Be Used On Stationary Operations and Must Be Aimed Every Time it is Set up or Moved.**

	Company Name	Model	Power	Size	Mount	Ref No.
TRLCM	Trailer Component Mfg., Inc. 7795 Division Drive Mentor, OH 44060	7636EC/PD	DP	96x48	T	---
		7636EF/PD	DP	96x48	T	---
		3060	VP	60x30	V	---
		D2000	DP	96x48	T	95-171
		S6000	SP	96x48	T	95-187
TRFCN	Trafcon Industries, Inc. 81 Texaco Road Mechanicsburg, PA 17055	MB1-13	VP	48x24	V	84-214
		MB1-15	VP	48x24	V	84-214
		MB3-15	VP	30x60	V	88-142
		MB4-15	VP	36x72	V	91-272
		MB4-25	VP	36x72	V	91-251
		MB5-15	DP	48x96	V	95-163
		MB5-25	DP	48x96	V	95-164
		TC1-15B	BP	96x48	T	---
		TC1-15D	DP	96x48	T/s	84-040
		TC1-15G	GP	48x96	T	88-144
		➔ TC1-15RS	SP	48x96	T	AB-1
		TC1-15S	SP	48x96	T/s	95-047
		TC1-15SA	SP	48x96	T	91-323
		TC1-15SF	SP	48x96	T	91-323
		TC1-25D	DP	96x48	T/s	85-186A
		TC2-15D	DP	96x48	T	84-041
		TC2-25D	DP	96x48	T	---
		TC3-15D	DP	48x96	T/s	87-354
		TC4-15S	SP	48x96	T/s	98-006
		TM1-15B	VP	48x96	V/s	---
		TM1-15S	SP	48x96	V/s	95-074B
		TM1-15RS	SP	48x96	T	98-214
		TC2-15S	SP	48x96	T	98-215

➔ **Solar Retrofit : Must meet special requirements for solar retrofit. Contact Traffic Division.**

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

ARROW PANEL

VP = Vehicle powered (12 volt)
GP = Gas powered
DP = Diesel powered

BP = Battery
SP = Solar Battery
Size is in inches

T = Trailer (/s = skid)
V = Vehicle (/s = skid)

◆ **May Only Be Used On Stationary Operations and Must Be Aimed Every Time it is Set up or Moved.**

	Company Name		Model	Power	Size	Mount	Ref No.
USSEA	U. S. Seal, Inc. 281 West Sixth Street West Wyoming, PA 18644	◆	2500	SP	48x96	T	90-156
WANCN	Wanco, Inc. 5870 Tennyson Street Arvada, Co 80003-6903		WTDB8-SA	DP	96x48	T/s	89-093A
			WTGB8-SA	DP	96x48	T	89-093B
			WTB8-SAC	DP	96x48	T	89-093C
			WTDB8-SAC	DP	96x48	T	89-093D
			WRB4-A	VP	48x24	V	89-093E
			WRB5-A	VP	60x30	V	89-093F
			WRB5-SA	VP	60x30	V	89-093G
			WRB5-SAC	VP	60x30	V	89-093H
			WRB6-SA	VP	72x36	V	89-093J
			WTB8-SA	VP	96x48	V	89-093K
			WTB8-SAC	VP	96x48	V	89-093L
			WTSP55-LSA	SP	96x48	T	01-091
			WTSP75-LSA	SP	96x48	T	01-091
			WTSP110-LSA	SP	96x48	T	01-091
WORKA	Work Area Protection Corp.						AB-17
	2500 Production Dr. St. Charles, IL 60174	◆	WAP-WAAW-15SB	SP	96x48	T	90-165
			WAAW-100-15D	DP	96x48	T	91-283
			VMAW 2415	VP	48x24	V	92-022
			VMAW-24-15LV	VP	48x24	V	92-330
			VMAW-30-15LV	VP	60x30	V	92-350
			WAP-WAAW-15SB-III	SP	96x48	T	93-049

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SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

TEMPORARY BARRICADES

✶ = Lighted **Test Level** = NCHRP Approval Rating

	Company Name	Type	Model #	Test Level	Ref. No.
CAMSC	Camsco Services, Inc. 255 Pennbriar Drive Erie, PA 16509	✶ II	T2HSA	3	02-076
CORTI	Cortina Tool & Molding 10706 West Grand Ave. Franklin Park, IL 60131	I II I II	Plastx 97-01-001 Plastx 97-01-002 Steelcade 97-03-001 Steelcade 97-03-002	3 3 3 3	BAR-8 BAR-8 BAR-8 BAR-8
HTGCP	HTG Custom Plastech 15002 Cross Creek Parkway Newbury, OH 44065	III	Sentinel B-30	3	02-081
IMPRS	Impact Recovery Systems 246 West Josephine St. San Antonio, TX 78212	III	Barricade Series 600	3	BAR-9
THDTW	Three D Traffic Works, Inc. 430 North Varney Street Burbank, CA 91502	✶ I ✶ II	TD 2000 Works TD 2000 Works	3 3	00-272 00-272
TRFXD	Traffix Devices, Inc. 220 Calle Pintoresco San Clemente, CA 92672	✶ I ✶ II ✶ I ✶ II	36208 36408 37208 37408	3 3 3 3	01-029 01-029 01-029 01-029
UNRHT	United Rentals Highway Tech. 880 North Adison Road Villa Park, IL 60181-7050	✶ I ✶ II ✶ I, II, DI	12” x 24” 8” x 24” SafetyCade	3 3 3	00-304 00-304 00-303
YODOK	Yodock Wall Company, Inc. 623 N.E., 5th Terrace Fort Lauderdale, FL 33304	III III	Yodock 2001[1] Yodock 2001m[2]	3 3	BAR-7 BAR-7

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

SPEED DISPLAY SIGNS

VP = Vehicle powered (12 volt)
GP = Gas powered
DP = Diesel powered

BP = Battery
SP = Solar
EP = 120 volt

T = Trailer
V = Vehicle

	Company Name	Model	Power	Mount	Ref No.
PROTE	Protection Services, Inc. 635 Lucknow Lane Harrisburg, PA 17110	ConSAM	SP	T	SDS-1
TRFCN	Trafcon Industries, Inc. 81 Texaco Road Mechanicsburg, PA 17055	SST-2	SP	T	SDS-2

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

VARIABLE SPEED LIMIT SIGNS

VP = Vehicle powered (12 volt)
GP = Gas powered
DP = Diesel powered

BP = Battery
SP = Solar
EP = 120 volt

T = Trailer
V = Vehicle

	Company Name	Model	Power	Mount	Ref No.
ASTIT	ASTI Transportaion Systems 18 Blevins Drive New Castle, DE 19720	CST-1	SP	T	VSL-1
TRFCN	TRAFCON Industries Inc. 81 Texaco Road Mechanicburg, PA 17050	SST-2W	SP	T	VSL-2

SECTION 901 : Traffic Division
TRAFFIC ACCOMMODATION AND CONTROL
PORTABLE SIGN SUPPORTS

	Company Name	Model #	Type	NCHRP Test Level	Ref. No.
DICKE	Dicke Tool Co. 1201 Warren Avenue P. O. Box 518 Downers Grove, IL 60515	DF-4000	X-frame	3	01-085
		MS-Flex-30	X-frame	3	01-085
		MS-Rigid-30	X-frame	3	01-085
		UF-2000	X-frame	3	01-085
		DF-3003	X-frame	3	PSS-4
EASMS	Eastern Metal/USA Sign 1430 Sullivan Street Elmira, NY 14901	C-102 & C-132	X-frame	3	01-105
		C-142 & C-200	X-frame	3	01-105
		C-202 & C-232	X-frame	3	01-105
		C-242 & C-802	X-frame	3	01-105
		C-832 & C-842	X-frame	3	01-105
		C-902 & C-932	X-frame	3	01-106
		C-942 & X-501	X-frame	3	01-106
		X-551 & X-601	X-frame	3	01-106
		X-550	X-frame	3	01-156
		E-350	Tripod	3	01-156
		X-600	X-frame	3	01-157
		X-840	X-frame	3	01-158
		X-552 & X-553	X-frame	3	PSS-5
IMPRS	Impact Recovery Systems 246 West Josephine St. San Antonio, TX 78212	350 & 351	Rubber Base	3	PSS-6

SECTION 901 : Traffic Division
TRAFFIC ACCOMMODATION AND CONTROL
PORTABLE SIGN SUPPORTS

	Company Name	Model #	Type	NCHRP Test Level	Ref. No.
MDITC	MDI Traffic Control Products 38271 W. Twelve Mile Road Farmington Hills, MI 48331	30CAM	X-frame	3	00-341
		40CAM	X-frame	3	00-341
		50SM	X-frame	3	00-341
		3612DLK	X-frame	3	00-341
		4812	X-frame	3	00-341
		4814DLK	X-frame	3	00-341
		4814CS	X-frame	3	00-341
		4814HDK	X-frame	3	00-341
		4814K	X-frame	3	00-341
		4814NSCK	X-frame	3	00-341
		4814SSCK	X-frame	3	00-341
		4815	X-frame	3	00-341
		4818	X-frame	3	00-341
		4850	X-frame	3	00-341
		4860	X-frame	3	00-341
		4884CS	X-frame	3	00-341
PIBH-	PA Ind. for Blind & Handicapped 1007 North Front St. Harrisburg, PA 17110	9905-0075-010	X-frame	3	01-033
		9905-0075-015	X-frame	3	01-034
TRFXD	Traffix Devices, Inc. 220 Calle Pintoresco San Clemente, CA 92672	Lil-Buster 24018	X-frame	3	01-030
		Traffic Stand 22000	X-frame	3	01-031
		Zepher 26000	X-frame	3	01-032
		Big Buster	X-frame	3	02-044

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

NONMETALLIC DRUMS

THE DEVICES LISTED BELOW HAVE BEEN SELF-CERTIFIED BY THE VENDOR AS TO THEIR CRASHWORTHINESS AND ARE DEEMED COMPLIANT WITH NCHRP-350.
THESE DEVICES **MAY BE SOLD** FOR USE IN PENNSYLVANIA.

	COMPANY	MODEL NAME	REF. NO.
LAKSD	Lakeside Plastics, Inc. 450 West Thirty-Third Ave. Oskosh, WI 54903	The Director, Model # FTS 5 **Provisional Approval**	02-032
PLASS	Plastic Safety System, Inc. 2444 Baldwin Road Cleveland, OH 44104	Lifegard HDPE with rubber collar Lifegard LDPE with rubber collar & light	92-100A 92-100B
RADIA	Radiator Speciality Co. Traffic Control Prod. Div. P. O. Box 34689 Charlotte, NC 28234-6080	Safe-T-Drum No. 9700	ND-3 85-198
SERVM	Service & Materials Co., Inc. 4835 East County Road 600 Sunman, IN 47041	PB-85 "Commander", 2-piece, O. 1500 LD Channelizer Std with rubber base & light Bouncer PB-90 1500 HD Channelizer Std with rubber base & light	91-098 91-098 91-098 91-098
TRFXD	Trafix Devices, inc. 220 Calle Pintoresco. San Clemente, CA 92672	Model 18000LDPE Std with Sand Base & light Model 18000HDPE Std with Sand Base & light Model 18000HDPE LW Std with Sand Base & light Model 18000LDPE with rubber ring ballast & light Model 18000HDPE with rubber ring ballast & light	91-101 91-102 91-103 95-008 95-008
WORKA	Work Area Protection Corp. 2500 Production Drive St. Charles, IL 60174	B-200HDPE with sand base B-300HDPE with rubber tire base B-400HDPE with sand base & light B-400HDPE with rubber base & light	93-143 93-144 96-236A 96-236B

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SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL
PORTABLE CHANGEABLE MESSAGE SIGNS

T = Trailer **V** = Vehicle **FD** = Flip Disk **LED** = Light Emitting Diode
D = Deisel **B** = Battery **S** = Solar **G** = Generator
◆ = **Provisional Approval** **L** = Lamp **s** = Skid **FM** = Full Matrix

			Model	Type	Power	Size	Mount	Message	Ref. No.
ADDC-	ADDCO Manufacturing 240 Arlington Avenue E. St. Paul, MN 55117		9050100	FD	D	115x91	T	3-line	86-152
			9050100-7	FD	D	102x91	T	3-line	86-152
			DM2000	FD	D	90x50	T	2-Line	90-079
			DE3000	LED	B	90x50	s	2-Line	90-080
			DH1000	FD	D	113x76	T	3-Line	90-067
			DH1000 ALS	LED	S	134x76	T	3-Line	95-135
			DH1000 SLD	LED	S	113x76	T	3-Line	93-195
			DH1200	LED	D	113x76	T	3-Line	93-189
			BRICK	LED	S	145x69	T	FM	99-024
			BRICK	LED	BVG	84x42	V	FM	99-024
ADVSP	Advanced Safety Prod. P. O. Box 2663 Fallbrook, CA 92088	❷	VMS Msg Master	LED	B	35x71	VT	2-Line	S-12
AMELS	American Electronic Sign Spokane Ind. Pk, Bldg. 10 North 3808 Sullivan Rd Spokane, WA 99216		AESCO	F.D.	BD	115x76	T	3 Line	93-254
		◆	AESCOVCMS	F.D.	G	81x46	V	2-Line	93-255
AMESC	American Signal Co 2755 Bankers Industrial Dr. Atlanta, GA 30340		CMS-T300	FD	D	113x78	T	3 Line	90-182
			CMS-T320	LED	S	126x78	T	3 Line	PS-6
			CMS-T331	LED	S	126x78	T	3 Line	PS-6
			CMS-T333	LED	S	126x78	T	FM	95-283
			CMS-T333.1B	LED	S	136x79	T	FM	01-148
		❷	CMS-GP-432	LED	B	96x48	V	FM	96-161
		❷	CMS-GP-432T	LED	S	96x48	T	FM	PS-6
		❷	CMS-GP-232	LED	BV	72x32	V	FM	99-166

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL
PORTABLE CHANGEABLE MESSAGE SIGNS

T = Trailer **V** = Vehicle **FD** = Flip Disk **LED** = Light Emitting Diode
D = Deisel **B** = Battery **S** = Solar **G** = Generator
◆ = **Provisional Approval** **L** = Lamp **s** = Skid **FM** = Full Matrix

		Model	Type	Power	Size	Mount	Message	Ref. No.
DISPL	Display Solutions, Inc.							PS-2
	6301 Best Friend Road	PCMS-2	L	D	112x66	T	3-line	----------
	Norcross, GA 30071	Gen III	L	D	94x75	T	3-line	81-132
		Gen V		D	89x30	T	1-line	81-005
		Gen VI	FD	D	124x78	T	3-line	----------
		Gen VI-C	FD	D	125x78	T	3-line	90-301
		NightHawk 340	FD	D	111x78	T	3-line	93-166
		Sunray 340	LED	S	111x78	T	3-line	95-096
		Sunray 380	LED	S	128x78	T	3-line	01-097
		Sunray FM	LED	S	129x85	T	FM	00-228
		Sunray Mini FM	LED	S	96x48	T	FM	01-098
INTTC	International Traffic	CMS-100	LED	S	113x76	T	3-line	96-113
	Control Products, Inc.	CMS-100 FM	LED	S	113x84	T	FM	98-005
	FM 2169, P.O. Box 24							
	Junction, TX 76849							
LAKET	Lake Technologies, Inc.	PDM-S18502131	FD	D	142x79	T	3-line	87-216
	28248 Country Road 561							
	Tavares, FL 32778							
NATSG	National Signal, Inc.	Vu-Pointe	LED	S	116x76	T	3-line	PS-17
	14657 Industry Circle	ER200 CAB	LED	S	96x48	V	3-line	
	La Mirada, CA 90638	ER200	LED	S	96x48	T	3-line	
		ER200 Jr	LED	S	96x48	T	3-line	
PRSLR	Precision Solar Controls	SMC-1000	LED	S	127x77	T	3-line	92-035
	2960 Market Street	SMC-1000-HE	LED	S	127x76	T	3-Line	95-237
	Garland, TX 75041	SMC-2000	LED	S	127x77	T	FM	95-183
REVAP	Reva Plastics Corp.	2002	L	D	96x30	T	1-line	PS-9
	P. O. Box 440 - Rte. 31							
	Weedsport, NY 13166							

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL
PORTABLE CHANGEABLE MESSAGE SIGNS

T = Trailer **V** = Vehicle **FD** = Flip Disk **LED** = Light Emitting Diode
D = Deisel **B** = Battery **S** = Solar **G** = Generator
◆ = **Provisional Approval** **L** = Lamp **s** = Skid **FM** = Full Matrix

			Model	Type	Power	Size	Mount	Message	Ref. No.
SIGVM	Signalisation Ver-Mac, Inc. 2520 Watt, Ste-Foy Quebec, Canada G1P 3T4		Northern Lights PCMS-1500	LED LED	S S	84x78 132x82	T T	3-Line FM	PS-14 00-164
SOLAT	Solar Technology, Inc. 6560 Stonegate Dr. Allentown, PA 18106	❸	MB-4024 MB-3048 MB-4048	LED LED LED	S S S	120x72 126x76 126x76	T T T	3-line FM FM	PS-11 PS-11 99-038
SUNEL	Sunshine Electronic Display Company 501 Sylvania Street St. Joseph, MO 64501	❶	AWD		D	112x66	T	3-line	84-166
TELE-	Tele-Spot Systems 76 Progress Drive Stamford, CT 06902		317943-001 (sign) 317913-001 (Trailer)		D G	120x80	T	3-line	87-351
TRFCN	Trafcon Industries, Inc. 81 Texaco Road Mechanicsburg, PA 17055		LX-5000 TC1-ADS MB-ADS	LED LED LED	S SV SV	135x74 See PS-15 See PS-15	T T V	3-Line Full Full	97-001 01-202 01-202
WANCN	Wanco, Inc. 5870 Tennyson Street Arvada, Co 80003-6903		TMD WTMMB-S-LLA	LED LED	S S	130x72 130x72	T T	3-Line Full	97-167 00-264
WORKA	Work Area Protection Corp. 2500 Production Drive P.O. Box 4087 St. Charles, IL 60174		VMBS-1000		S	127x77	T	3-line	92-028

❶ Includes a 96"x48" arrow board on the back of the message panel.
Approved as a combination Portable Changeable Mesage sign and 96"x48" arrow board.
❷ Approved for incident management and moving operations.
❸ Must be equipped with LED lamps Model # (HLMT-CL00).

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

TRAFFIC CONES

THE DEVICES LISTED BELOW HAVE BEEN SELF-CERTIFIED BY THE VENDOR AS TO THEIR CRASHWORTHINESS AND ARE DEEMED COMPLIANT WITH NCHRP-350.
THESE DEVICES **MAY BE SOLD** FOR USE IN PENNSYLVANIA.

B/O = Brilliant Orange **F/O = Fluorescent Orange** **R/O = Red/Orange**

					REF NO.
HIGSP	Highway Safety Products	BHSP 4328	28",1-piece	F/O	TC-2
	1060 Kaiser Road	HSP 4328E-10	28",Slimline.	R/O	94-055
	P. O. Box 4169	HSP 4328-10	28"	R/O	94-056
	Napa, CA 94558	HSP 4336	36"	R/O	94-058
JBCSP	JBC Satety Plastic Inc.	RC70045S	28", 10 lb Slimeline	F/O	04-035
	1081 Dougherty Lake Est. Drive	RC70045C	28", 10 lb Wide body	F/O	04-034
	St. Louis, MO 63122				
LAKSD	Lakeside Plastics, Inc.				TC-4
	Tri-Tex Div. Safety Prod.	M2850-10,	28",	R/O	94-078
	450 West Thirty-Third Ave.	M2825-10,	28",Trimline	R/O	94-075
	Oskosh, WI 54903				
RADIA	Radiator Specialty Co.				TC-7
	1900 Wilkinson Blvd.	28 POHSL	28",SlimLine	B/O	93-071
	Charlotte, NC 28208-4689	28 POH,	28"	B/O	93-072
		36 POH,	36"	B/O	93-073
		B28 PO,	28"	F/O	86-066
		B28 POF,	28"	F/O	86-067
		BII36PO2,	36",2-piece,	Orange	----------
		B36 PO,	36",	R/O	87-287
		B36 POH	36"	R/O	----------
		B18 PO,	18",	R/O	----------
SERVM	Service & Materials Co.,Inc.	2058647	28"	R/O Black Base	94-038
	4835 East County Road 600	TC-28WH-PA	28" Wide body	R/O	01-183
	Sunman, IN 47041	TC-28FH-PA	28" SlimLine	R/O	01-184
WORKA	Work Area Protection Corp				TC-6
	2500 Production Drive	18 PVCS	18", 3 lb	Orange	93-107
	St. Charles, IL 60174	28 PVCTLH	28", 10 lb	Orange	93-108
		28 PVCH	28", 10 lb Wide body	Orange	93-109
		36 PVCS	36", 10lb	Orange	93-238
		28 PVCTLH-R	28", 10lb Trimline	Orange	94-074
		28 PVCH-R	28", 10lb Wide body	Orange	94-073
		36 PVCS-R	36", 10lb	Orange	94-072
		18 PVCS-R	18", 3lb	Orange	94-071

R = made w/Recycled material

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SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

TEMPORARY PAVEMENT MARKING TAPE

1 . REMOVABLE

BS = Bituminous Surface **CS** = PCC Surface **W** = White **Y** = Yellow

	Company	Type	Color	Surface	Ref. No.
3M-03	3M Traffic Control Mat'ls Div. 3M Center Bldg. 533-1D-04 St Paul, MN 55144-1000	Scotch Lane-Detour Grade 5710 5711 5710 w/A210 marker 5711 w/A211 marker 620 740 741 145 (Black Line Mask) 650 651 720 721 730 731 750 (P50 Primer) 751 (P50 Primer)	 W Y W Y W W Y W Y W Y W Y W Y	 BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS	 91-215 91-216 91-217 91-218 93-163 91-219 91-220 92-190 PM-1-2 PM-1-2 PM-1-2 PM-1-2 PM-1-2 PM-1-2 **Provisional** **Provisional**
ADTMK	Advance Traffic Markings P.O. Box H Roanoke Rapids, NC 27870-8082	ATM200W 19-200/216 ATM200Y 19-201/217 ATM NO-FOIL 280B 19-286 Black	W Y W & Y	BS & CS BS & CS BS & CS BS & CS	PM 1-9 PM 1-9 PM 1-9 PM-1-9
BRITE	Brite-Line Industries, Inc. 104 Revere Street Canton, MA 02021-2996	Series 100 Series 100 Series 200 Wet Night TWR TWR	W Y W W Y	BS & CS BS & CS BS & CS BS & CS BS & CS	92-188 93-159A 93-159C PM-1-7 PM-1-7

TEMPORARY PAVEMENT MARKING TAPE

1 . REMOVABLE

BS = Bituminous Surface **CS** = PCC Surface **W** = White **Y** = Yellow

	Company	Type	Color	Surface	Ref. No.
ENNIS	Ennis Paint, Inc. 1509 South Kaufman Ennis, TX 75119 Formerly: **(LARFM)** LaFarge Road Markings	Prismoline TRT Prismoline TRT Series U-210 Series U-202 Series T-2912 TRT-101WH TRT-96-201WH TRT-96-201-41	W Y W & Y Y Y W W Y	BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS BS & CS	91-225 91-226 94-151A,B 94-152A,B 94-153B PM-1-5 PM-1-5 PM-1-5
FLEX0	Flex-O-Lite, Inc. 2997 Clarkson Road Chesterfield, MO 63017	Flex-O-Line 400 Flex-O-line 400	W Y	BS & CS BS & CS	91-233 91-234
LAMPB	Laminations, P. B., Inc. 2940 Mary Ave. St. Louis, MO 63144	Aztec 102 Engr.gr. Aztec 390	W Y	BS & CS BS & CS	93-168A 94-140
NIPCA	Nippon Carbide Ind. (USA) Inc. 3136 East Victoria St. Rancho Dominquez, CA 90221	5812-A 5804-A	W Y	BS & CS BS & CS	90-209 90-210
SWAR0	Swarco Industries, Inc. P. O. Box 89 Columbia, TN 38402-0089	Director 2 Director 2	W Y	BS & CS BS & CS	PM-1-3 93-227 91-228

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

TEMPORARY PAVEMENT MARKING TAPE

2 . NONREMOVABLE

BS = Bituminous Surface **CS** = PCC Surface **W** = White **Y** = Yellow

	Company	Type	Color	Surface	Ref. No.
3M-03	3M Traffic Control Mat'ls Div.	Scotch Lane - Constr. Grade:			
	3M Center Bldg. 223-3N-01	5160	W	BS & CS	91-221
	St Paul, MN 55144-0100	5161	Y	BS & CS	91-222
		5160 w/ A200 Marker	W	BS & CS	91-223
		5161 w/ A201 Marker	Y	BS & CS	91-224
		510	W & Y	BS & CS	PM-1-2
		511	W & Y	BS & CS	PM-1-2
ENNIS	Ennis Paint, Inc.				
	1509 South Kaufman	P-704	W	BS & CS	87-227
	Ennis, TX 75119	P-705	Y	BS & CS	87-228
	Formerly: **(LARFM)**				
	LaFarge Road Markings				
FLEX0	Flex-O-Lite, Div GSI, Inc.	FOL200	W	BS & CS	91-235
	2997 Clarkson Road	FOL200	Y	BS & CS	91-236
	Chesterfield, MO 63017	FOL300	W	BS & CS	91-137
		FOL300	Y	BS & CS	91-238
SWAR0	Swarco Industries, Inc.	Visa-Line C.G	W	BS & CS	91-229
	P. O. Box 89	Visa-Line C.G	Y	BS & CS	91-230
	Columbia, TN 38402-0089	Visa-Line E.G	W	BS & CS	91-231
		Visa-Line E.G	Y	BS & CS	91-232

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SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

TUBULAR MARKERS (Traffic Guide Posts)
Type V Sheeting Only

THE DEVICES LISTED BELOW HAVE BEEN SELF-CERTIFIED BY THE VENDOR AS TO THEIR CRASHWORTHINESS AND ARE DEEMED COMPLIANT WITH NCHRP-350.
THESE DEVICES **MAY BE SOLD** FOR USE IN PENNSYLVANIA.

W = White **Y** = Yellow **O** = Orange **R** = Red **B** = Blue **G** = Green
Gr = Gray **Br** = Brown **BP** = Butyl Pad **EP** = Epoxy

	Company Name	Model NO./Ht.	Color	Bond	Ref. No.
BUNZL	Bunzl Extrusion, Inc. Tacoma Division 3110 70th Ave. East Tacoma, WA 98424	FG 300-UR **Provisional Approval** **Performance will be reviewed by the Department after 1 year field trial**	W, Y, O	EP	
CARST	Carsonite International 10 Bob Gifford Blvd. Early Branch, SC 29916-0098	SDR-3028 / 28" SDR-3036 / 36" SDC-2036 / 36" SDC-2048 / 48"	W, Y, O W, Y, O W, Y W, Y	BP BP BP, EP BP, EP	TM-9 TM-9 TM-9 TM-9
FLEXS	Flexstake, Inc. 2150 Andrea Lane Fort Myers, FL 33912	TM 753 (36") TM 754 Series (48")	W,Y,O,R,B,G,Gr,Br W,Y,O,R,B,G,Gr,Br	BP BP	TM-10 TM-10
PIBH-	PA Industries for the Blind & Handicapped 1007 North Front St. Hbg, PA 17110	PBIH-18TM PBIH-24TM PBIH-28TM PIBH-36TM PIBH-48MWY & B PIBH-TMB Surface Mount Base-Pin Lock, Epoxy	W,Y,O W,Y,O W,Y,O W,Y,B,O W,Y,B,O	EP ◆ EP EP EP EP	TM-11 TM-11 TM-11 TM-11 TM-11
SAFHC	Safe-Hit Corporation One East Wacker Drive Chicago, IL 60601	SH518SMTEAOS / 18" SH518SMTEAYS / 18" SH518SMTEAWS / 18" SH524SMAEAOS / 24" SH524SMAEAYS / 24" SH524SMAEAWS / 24"	O Y W O Y W	EP ◆ EP ◆ EP ◆ BP BP BP	TM-7 TM-7 TM-7 TM-7 TM-7 TM-7

◆ **Use Master Builders Concressive 1011 Epoxy 1 to 1 Mix**

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SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

VERTICAL PANELS

SP = Single Panel ✶ = May Be Used With Light **Test Level** = NCHRP Approval Rating
◆ = **Provisional Approval**

	Company Name	Type	Model #	Test Level	Ref. No.
IMPRS	Impact Recovery Systems 246 West Josephine St. San Antonio, TX 78212	SP SP	◆ 320 F Portable Base ◆ 320 F Fixed Base	3 2	PVP-4 PVP-4
PLASS	Plastic Safety System, Inc 2444 Baldwin Road Cleveland, OH 44104	SP ✶	◆ MVP	3	PVP-5
PROTE	Protection Services, Inc. 635 Lucknow Lane Harrisburg, PA 17110	SP	Big Foot	3	00-333
TRFXD	Traffix Devices, Inc. 220 Calle Pintoresco San Clemente, CA 92672	SP ✶	33229	3	01-028
UNRHT	United Rentals Highway Tech. 880 North Adison Road Villa Park, IL 60181-7050	SP	Extended SafetyCade	3	00-302

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

STOP / SLOW PADDLE, FLASHING

DETRL	Detronics Limited 4003 Bloomington Road, RR#4 Stoufville, Ontario, CANADA L4A 7X5	Model TES-336T	18 in.	96-251

INTRUSION ALARM

SAFLS	Safe-Lite Systems 1050 Eagle Road Newton, PA 18940	Model 10A-M (Must use 70 durometer pnumatic tube)	97-032
EASMS	Eastern Metal/USA Sign 1430 Sullivan Street Elmira, NY 14901	Model HWZIA-300 Model HWZIA-500 (Provisional Approval PCIA-2)	97-015A 97-015B
KENC-	Kenco International, Inc. P. O. Box 576 Ligonier, PA 15658	WATCHDOG Perimeter (Provisional Approval PCIA-1)	96-126

SAFETY MARKERS

VAG&S	Vara, A. G. & Sons 4881 Newton Road Hamburg, NY 14075	OC-5-30-64 Octopus	----------

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

WARNING LIGHTS

	Company Name	Type	Model #	Ref. No.
C&CSG	C,&C. Signals 216 South Alma School Road Mesa, AZ 85210	A, C	BL3V.3WXX	WL-13
COLLT	Collt Mfg, Inc. 249 Hollis St. Holliston, MA 01746	A	RS-120	84-126
		A	PS-600	----------
		A	PS-120	----------
		B	12-B	84-125
		C	PSB-600	84-127
DORMA	Dorman Smith Traffic Products Rufford Road Southport, England PR9 8 LA	A	TW1S-12V	86-219
		C	TW 2/S	85-206
EMPCL	Empco-Lite Div Elgin Molded Plastics 909 Grace St. Elgin, IL 60120	A	100	----------
		A	400	----------
		A	100 LED	95-195
		A	400 LED	95-196
		A	444 LED	99-040
		A	499 LED	99-063
		A	Y2K	00-162
		B	1002	----------
		B	1002S	----------
		B	1102	----------
		B	1102L	96-085
		B	212 LED	97-179
		C	100	----------
		C	100LED	95-133
		C	400	----------
		C	400LED	94-270
		C	400LED-DH	94-134
		C	444 LED	99-041
		C	499 LED	99-064
		C	Y2K	00-163
		D	499L3D	03/WL-2

SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

WARNING LIGHTS

	Company Name	Type	Model #	Ref. No.
PROTE	Protection Services, Inc. 635 Lucknow Lane Harrisburg, PA 17110	A	PF3-P-12V-A	----------
		A	PF-4	----------
		A	PF4P-12V-PC-S	83-069
		A	PF3P-12V-PC-S	----------
		A	PF4P-LED-6V-FL	96-103A
		B	HI-3	87-313
		B	HI-3-120	----------
		B	HI-4	83-143
		B	HI-3-12V	----------
		B	200 LED	95-075
		C	PF-3-PC-SB2	----------
		C	PF-4-PC-SB	----------
		C	PF-3P-6V-SBP-CS	83-071
		C	PF-3P-6VC	----------
		C	PF4P-LED-6V-FL	96-103B
		C	200-1-LED	95-004

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SECTION 901 : Traffic Div (continued)
TRAFFIC ACCOMMODATION AND CONTROL

WARNING LIGHTS

	Company Name	Type	Model #	Ref. No.
SERVM	Service & Materials Co., Inc. 4835 East County Road 600 Sunman, IN 47041	A	301	81-103
		A	501	81-103
		A	NF5003	83-139
		A	PAR7003	83-140
		B	NF1714	----------
		B	NF1724	----------
		B	PAR1764	----------
		B	PAR1774	----------
		C	NF5001	----------
		C	PAR7001	----------
		C	301	81-103
		C	501	81-103
TRFCN	Trafcon Industries, Inc. 81 Texaco Road Mechanicsburg, PA 17055-2623	B	M90	90-021
WLITL	WLI Industries, Inc. 880 North Addison Road Villa Park, IL 60181	A	Toughlite 2000	WL-11
		C	Toughlite 2000	
		C	Toughlite II	
WORKA	Work Area Protection Corporation 2500 Production Drive P. O. Box 4087 St. Charles, IL 60174	B	2540	WL-12
		B	2524	WL-12

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SECTION 910
HIGHWAY LIGHTING
Section 910.3(d), "Pole Foundations" Drilled Concrete Caissons

The Listing Below Contains **Approved Product Alternatives** To Section 910.3(d)

❶ The Alternate Foundation Design For Conventional Lighting Has Been Approved Under Special Provision S00(ID09101A)

❷ The Alternate Foundation Design For High Mast Lighting Has Been Approved Under Special Provision S00(ID09102A)

			Ref. No.
SAFSF	SAFE Foundations, Inc. 920 Century Bldg., 130 Seventh St. Pittsburgh, PA 15222	❶ ❷	99-034 95-291

SECTION 930
"POST MOUNTED SIGNS", Type A
Section 930.2(c)2 Foundations

The Listing Below Contains Approved Product Alternatives To Section 930.2(c)1, Cast in Place

			Ref. No.
SAFSF	SAFE Foundations, Inc. 920 Century Bldg., 130 Seventh St. Pittsburgh, PA 15222	Safe (Sign Foundation)	95-290

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SECTION 937.2 Traffic Division
DELINEATION DEVICES
BARRIER MOUNT
Type V Sheeting Only

A = Amber C = Crystal R = Red W = White Y = Yellow IR = Impact Resistance
SS = Single Sided DS = Double Sided SD = Single Direction BD = Bi Directional
BMD = Barrier Mounted Delineator GMD = Guiderail Mounted Delineator CMD = Center Mounted Delineator
SPG = Strong Post Guiderail WPG = Weak Post Guiderail

	Company Model	Color	Mounting	Description	REF. NO.
AKT-0	AKT Corp. 156 Williams Street Carpentersville, IL 60110				D-1-4-1R
AKT-1	AKT-717	W & Y	GMD	IR, SD & BD	
ASTR-	Astro Optics Corp. 156 Williams St. Carpentersville, IL 60110				D-1-8
	FB331	W & Y	BMD	IR, SD	95-255A
	FB332	W & Y	BMD	IR, BD	95-255A
	FB341	W & Y	BMD	IR, SD	95-255B
	FB342	W & Y	BMD	IR, BD	95-255B
BUNZL	Bunzl Extrusion, Inc. Tacoma Division 3110 70th Ave. East Tacoma, WA 98424				
	PCBM-12	W & Y	BMD	IR, SD & BD	94-172B
	PCBM-15	W & Y	BMD	IR, SD & BD	86-400
	Butterfly Guiderail	W & Y	GMD	IR, SD & BD	92-061
	Straight Post Ref.-GMD	W & Y	GMD	IR, SD & BD	06/07/95
CARST	Carsonite Int'l Corp 10 Bob Gifford Blvd. Early Branch, SC 29916				D-1-10
	CGR-302701	W	GMD	IR, SD & BD	
	CGR-302702	Y	GMD	IR, SD & BD	
	CFGBK300	Bracket for Guiderail			

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SECTION 937.2 Traffic Division
DELINEATION DEVICES
BARRIER MOUNT
Type V Sheeting Only

A = Amber C = Crystal G = Grey R = Red W = White Y = Yellow IR = Impact Resistance
SS = Single Sided DS = Double Sided SD = Single Direction BD = Bi Directional
BMD = Barrier Mounted Delineator GMD = Guiderail Mounted Delineator.
SPG = Strong Post Guiderail WPG = Weak Post Guiderail

Company Model	Color	Mounting	Description	REF. NO.
DURAF Duraflex Corp. 297 Margaret King Avenue Ringwood, NJ 07456				D-1-3
Flexx 2020	W & Y	BMD	IR, SD & BD	---------
Railrider	W & Y	SPG	IR, SD & BD	91-021
Weak Post Railrider	W & Y	WPG	IR, SD & BD	91-021
Electriflexx	W & Y	BMD	IR, SD & BD	95-266
EASTM Eastern Metal of Elmira, Inc. 1430 Sullivan Street Elmira, NY 14901				D-1-1
650-IR-GMD	Blank	GMD		94-272
651-IR-GMD	W & Y	GMD	IR, SD	94-272
652-IR-GMD	W & Y	GMD	IR, BD	94-272
660-IR-BMD	Blank	BMD		94-272
661-IR-BMD	W & Y	BMD	IR, SD	94-272
662-IR-BMD	W & Y	BMD	IR, BD	94-272
PIBH- PA Ind. for Blind & Handicapped 1007 North Front St. Harrisburg, PA 17110				D-1-7
PIBH-16BMW	W	BMD	IR, 16" White Post SD & BD	
PIBH-16BMY	Y	BMD	IR, 16" Yellow Post SD & BD	
PIBH-27GRW	W	GMD	IR, 27" Post SD & BD	
PIBH-27GRY	Y	GMD	IR, 27" Post SD & BD	
PIBH-BMB		BM Base	(Pin Lock, Epoxy)	

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SECTION 937.2 Traffic Division
DELINEATION DEVICES
BARRIER MOUNT
Type V Sheeting Only

A = Amber C = Crystal G = Grey R = Red W = White Y = Yellow IR = Impact Resistance
SS = Single Sided DS = Double Sided SD = Single Direction BD = Bi Directional
BMD = Barrier Mounted Delineator GMD = Guiderail Mounted Delineator.
SPG = Strong Post Guiderail WPG = Weak Post Guiderail

Company Model	Color	Mounting	Description	REF. NO.
SAFHC Safe-Hit Corporation One East Wacker Drive Chicago, IL 60601				D-1-5
SH216 RMB-WS	W	BMD	IR, 16" Post, SD	
SH216 RBMD-WS	W	BMD	IR, 16" Post, BD	
SH216 RBM-YA	Y	BMD	IR, 16" Post, SD	
SH216 RBMD-YA	Y	BMD	IR, 16" Post, BD	
SH216 RBM-AS	G	BMD	IR, 16" Post, SD	
SH216 RBMD-AA	G	BMD	IR, 16" Post, BD	
SH216 RBM-RS	R	BMD	IR, 16" Post, SD	
SH216 RBMD-RA	R	BMD	IR, 16" Post, BD	
Sh227GRS-WS12	W	GMD	IR, 27" Post, SD	
Sh227GRSD-WS12	W	GMD	IR, 27" Post, BD	
Sh227GRS-YS12	Y	GMD	IR, 27" Post, SD	
Sh2276GRSD-YS12	Y	GMD	IR, 27" Post, BD	
Sh227GRSE-UL-LA	B	GMD	IR, 27" Post, SD	
SUNLB Sun-Lab Technologies 117 Leisenring-Vanderbilt Road Vanderbilt, PA 15486				D-1-11
SM-5AR	Y	BMD	IR, SD & BD	00-234
SM-10AR	Y	BMD	IR, SD & BD	00-234
TM-5ARB	Y	BMD	IR, SD & BD	00-234
TM-*ARW	Y	BMS	IR, SD & BD	00-234

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SECTION 937.2 Traffic Division
DELINEATION DEVICES
POSTS
Type 5 Sheeting Only

THE DEVICES LISTED BELOW HAVE BEEN SELF-CERTIFIED BY THE VENDOR AS TO THEIR CRASHWORTHINESS AND ARE DEEMED COMPLIANT WITH NCHRP-350. THESE DEVICES ARE APPROVED FOR USE IN PENNSYLVANIA.

GM = Ground Mounted **SM** = Surface Mounted **GRP** = Guide Rail Post
W = White **Y** = Yellow **O** = Orange **R** = Red
G = Green **B** = Blue **Br** = Brown **Gr** = Gray

		Model No.	Color	Type	REF NO.
BUNZL	Bunzl Extrusion, Inc.	FG 300-UR	W, Y, O	SM (epoxy)	D-3-8
	Tacoma Division	FG-500 Series FG-95	W, Y	GM	D-3-8
	3110 70th Ave. East	FG-500 Series FG-96	W, Y	GM	D-3-8
	Tacoma, WA 98424				
CARST	Carsonite Int'l Corp.	CFR-406601	W	GM	D-3-4
	10 Bob Gifford Blvd.	CFR-406602	Y	GM	D-3-4
	Early Branch, SC 29916	CDS30	W, Y, O, Gr	GM	93-188
FLEXS	Flexstake, Inc.				D-3-5
	2150 Andrea Lane	HD-600 Series	W,Y,O,R,G,B,Br,Gr	GM	92-072A-F
	Fort Myers, FL 33912	SM-700 Series	W,Y,O,R,G,B,Br,Gr	SM	92-072A-F
FRANK	Franklin Industries	PC-220	W,Y,B	GM	00-046
	P. O. Box 671				
	Franklin, PA 16323				

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SECTION 937.2 Traffic Division
DELINEATION DEVICES
POSTS
Type 5 Sheeting Only

THE DEVICES LISTED BELOW HAVE BEEN SELF-CERTIFIED BY THE VENDOR AS TO THEIR CRASHWORTHINESS AND ARE DEEMED COMPLIANT WITH NCHRP-350. THESE DEVICES ARE APPROVED FOR USE IN PENNSYLVANIA.

GM = Ground Mounted **SM** = Surface Mounted **GRP** = Guide Rail Post
W = White **Y** = Yellow **O** = Orange **R** = Red
G = Green **B** = Blue **Br** = Brown **Gr** = Gray

		Model No.	Color	Type	REF NO.
PIBH-	PA Industries for the Blind & Handicapped 1007 North Front St. Harrisburg, PA 17110	PIBH-48GPW	W	GM	D-3-7
		PIBH-48GPY	Y	GM	D-3-7
		PIBH-48GPG	Gr	GM (SR mkrs only)	D-3-7
		PIBH-48GPR	R	GM (Drainage Loc.)	D-3-7
		PIBH-48GPB	B	GM (Utility & call Box)	D-3-7
		PIBH-48GPBR	BR	GM	D-3-7
		PIBH-52GPW	W	GM	D-3-7
		PIBH-48GPW	W	GM	D-3-7
		PIBH-48GPY	Y	GM	D-3-7
		PIBH-36GPW	W	SM	D-3-7
		PIBH-36GPY	Y	SM	D-3-7
		PIBH-36GPGR	GR	SM	D-3-7
		PIBH-36GPB	B	SM	D-3-7
		PIBH-36GPBR	BR	SM	D-3-7
		PIBH-36GPW	W	SM	D-3-7
		PIBH-36GPY	Y	SM	D-3-7
		PIBH-A18		GM (18” Steel Anchor)	D-3-7
		PIBH-A8		SM (8” Steel Anchor)	D-3-7
		PHIB-TMB		SM (Epoxy)	D-3-7
SAFHC	Safe-Hit Corporation One East Wacker Drive Chicago, IL 60601	SH248GP3-WS12	W	GM	D-3-3
		SH248GP3-YS12	Y	GM	D-3-3
		**SH248GP3-AS12	Gr	GM	D-3-3
		SH248GP3-RS12	R	GM	D-3-3
		***SH248GP3-UL12	B	GM	D-3-3
		SH248GP3-NS12	BR	GM	D-3-3
		SH38GP3-WS12	W	GM	D-3-3
		SH348GP3-YS12	Y	GM	D-3-3
		SH236SMA-WS12	W	SM	D-3-3
		SH236SMA-YS12	Y	SM	D-3-3
		SH336SMA-WS12	W	SM	D-3-3
		SH336SMA-YS12	Y	SM	D-3-3
		SHA3-18C-GL		GM (18" Steel Anchor)	
		SHA1-08OE-GL		SM (8" Steel Anchor)	
		SH-SMA-1-BL		SM Base (Pin Lock, Epoxy)	

* Reflective material on both sides
** This post may not be used for delination purposes
*** This post may only be used for utility location

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SECTION 948
"STEEL SIGN STRUCTURES"
Section 948.3(b) Foundations

The Listing Below Contains <u>Approved Product Alternatives</u> To Section 948,.3(b)

❶ The Alternate Foundation Design For Cantilever & Centermount Sign Structure Poles Has Been Approved Under Special Provision S00(ID09103B)

			Ref. No.
SAFSF	SAFE Foundations, Inc. 920 Century Bldg., 130 Seventh St. Pittsburgh, PA 15222	❶	95-290

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Monday, April 26, 2004
Pennsylvania Department of Transportation
PENNDOT

SECTION 960: Traffic Division
HOT THERMOPLASTIC PAVEMENT MARKINGS

Lines = Center, Lane & Edge Lines
L = Lighted **B** = Bituminous Surface **W** = White
UL = Unlighted **C** = PCC Surface **Y** = Yellow
Other Uses = Crosswalks, Stop Lines, Legends & Crosshatching. ✪ **= Provisional Approval**

	Company	Material	Color	Lines	Surface	Primer	Beads	Other Uses
CROWN	Crown Technologies II	TT-WTX-BADA	W	L, UL	C	No	M247	Yes
	P.O. Box 789	15WAX-BADA	Y	L, UL	B	No	M247	Yes
	Woodbury, GA 30293-0789	Tuffline ®	W	L, UL	B, C	Yes		Yes
ENNIS	Ennis Paint, Inc.	WBE207H01	W	L, UL	B, C	Yes		No
	1509 South Kaufman	WGA100E01	W	L, UL	B, C	Yes		No
	Ennis, TX 75119	WBE207H01A	W	L, UL	B	Yes		No
	Formerly:	YGC031A21	Y	L, UL	B	Yes		Yes
	Cataphote, Inc. **(CATAP)**	YGE500A/1PP	Y	L, UL	B, C	Yes		No
		WGE200H	W	L, UL	B			No
		WGE200H/1PP	W	L, UL	B	Yes		No
		WGE500A	W	L, UL	B			No
		WGE500A/1PP	W	L, UL	B	Yes		No
		WGE500H	W	L	B			No
		WGE500H/1PP	W	L	B	Yes		No
		WGE500A	W	L, UL	C			No
		YGE500A	Y	L, UL	C			No
		CATATHERMAWBB		L, UL	B, C			No
		CATATHERMHCW		L, UL	B, C			No
		CATATHERMAW		L, UL	B			No
		T2000WGE200A	W	L, UL	B	No	M247	Yes
		T2000WGE200A	W	L, UL	C	No	M247	No
		T2000WGE240A	W	L, UL	B	No	M247	Yes
		T5000WGE500A	W	L, UL	B	No	M247	Yes
		T2000YGE200H	Y	L, UL	B	No	M247	Yes
		T2000YGE200A	Y	L	C	No	M247	No
		T2000YGE200ALF	Y	L, UL	B	No	M247	No
		T2000YGE240A	Y	L, UL	B	No	M247	Yes
		T5000YGE500A	Y	L, UL	B	No	M247	Yes
		T5000YGE500ALF	Y	L, UL	B	No	M247	No
		T7000YGE701A	Y	L	B	No	M247	No
		T7000YGE701H	Y	L, UL	C	No	M247	No

More Ennis Paint Inc. listings on next page

SECTION 960: Traffic Division
HOT THERMOPLASTIC PAVEMENT MARKINGS

Lines = Center, Lane & Edge Lines
L = Lighted **B** = Bituminous Surface **W** = White
UL = Unlighted **C** = PCC Surface **Y** = Yellow
Other Uses = Crosswalks, Stop Lines, Legends & Crosshatching. ✪ **= Provisional Approval**

	Company	Material	Color	Lines	Surface	Primer	Beads	Other Uses
ENNIS	Ennis Paint, Inc.	W4E-4BX-EXR(C)	W	L, UL	B			No
	1509 South Kaufman	W4E-4BX-EXR(UC)	W	L, UL	B			No
	Ennis, TX 75119	W4E-4BX-EX(C)	W	L, UL	B			No
	Formerly:	W4E-4BX-EX(UC)	W	L, UL	B			No
	Avery Dennison **(AVERY)**	W4E-5BX-EXR(C)	W	L, UL	B			Yes
		W4E-5BX-EXR(UC)	W	L, UL	B			Yes
		W4E-5BX-EX(C)	W	L, UL	B			Yes
		W4E-5BX-EX(UC)	W	L, UL	B			No
		W4E-5BX-PT	W	L, UL	B, C			No
		W5E-4BX-AA	W	L, UL	B			No
		W5E-5BX-AA	W	L, UL	B			No
		Y2E-4BX-EXR(C)	Y	L	B			No
		Y2E-4BX-EXR(UC)	Y	L, UL	B			No
		Y2E-4BX-EX(C)	Y	L	B			No
		Y2E-4BX-EX(UC)	Y	L	B			No
		Y2E-5BX-EXRA(UC)	Y	L, UL	B			No
		Y2E-5BX-EXR(C)	Y	L, UL	B			No
		Y2E-5BX-EXR(UC)	Y	L, UL	B			No
		Y2E-5BX-EX(C)	Y	L, UL	B			No
		Y2E-5BX-EX(UC)	Y	L, UL	B			No
		884004	W	L, UL	B	No	M247	No
		884017	Y	L, UL	B, C	No	M247	No
		W5E-5GX0H	W	L, UL	B, C	No	M247	No
		TABWAPASTR96	W	L, UL	B	No	M247	Yes
		Y2E5GX0H	Y	L, UL	B, C	No	M247	No
ENNIS	Formerly: **(LARFM)**	Alkyd-EE	W	L, UL	B			No
	LaFarge Road Marking	LD96-1016	W	L, UL	B	No	PT260	Yes
		LD96-1016	W	L, UL	C	No	PT260	No
		LD96-1018	W	L, UL	B	No	PT260	Yes
		LD96-1018	W	L, UL	C	No	PT260	No
		LD96-1017	Y	L, UL	B	No	PT260	Yes
		LD96-1017	Y	L, UL	C	No	PT260	No
		LD96-1019	Y	L, UL	B	No	PT260	Yes
		LD96-1019	Y	L, UL	C	No	PT260	No

SECTION 960: Traffic Division
HOT THERMOPLASTIC PAVEMENT MARKINGS

Lines = Center, Lane & Edge Lines
L = Lighted **B** = Bituminous Surface **W** = White
UL = Unlighted **C** = PCC Surface **Y** = Yellow
Other Uses = Crosswalks, Stop Lines, Legends & Crosshatching. ✪ **= Provisional Approval**

	Company	Material	Color	Lines	Surface	Primer	Beads	Other Uses
SWAR1	Swarco Ind., Inc.	EW300/A100	W	L, UL	B			No
	P. O. Box 89	EW300/AASH	W	L, UL	B			No
	Columbia,	EW500/FT2	W	L, UL	B			Yes
	TN 38402-0089	WHAASHTO	W	L, UL	B	No	M247	Yes
		WHAASHTO	W	L, UL	C	No	M247	No
		WAOHIO	W	L, UL	B	No	Megalux	Yes
		WAOHIO	W	L, UL	C	No	Megalux	No
		YHAASHTO	Y	L, UL	B	No	M247	Yes
		YHAASHTO	Y	L, UL	C	No	M247	No

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Monday, April 26, 2004

SECTION 961 : Traffic Division
COLD PLASTIC PAVEMENT MARKINGS OR LEGENDS

Lines = Center, Lane & Edge Lines
L = Lighted **B** = Bituminous Surface **W** = White
UL = Unlighted **C** = PCC Surface **Y** = Yellow
Other Uses = Crosswalks, Stop Lines, Legends & Crosshatching. ✪ **= Provisional Approval**

	Company	Material	Color	Lines	Surface	Primer	Beads	Other Uses
BRITE	Brite-Line	Series 1000	W	L, UL	C			Yes
	104 Revere Street	Series 1000	W	L, UL	B	Yes		Yes
	Canton, MA 02021-2996	Series 1000	Y	L	C	Yes		No
		Series 1000	Y		B			No
		XRP Series	W	L, UL	B, C	Yes	M247	Yes
		XRP Series	Y	L, UL	C	Yes	M247	No
ENNIS	Ennis Paint, Inc.	P-722	W	L, UL	B, C			Yes
	1509 South Kaufman	P-723	Y	L	B, C			No
	Ennis, TX 75119	P-724	W	L, UL	B, C			Yes
	Formerly: **(LARFM)**	P-725	Y	L	B, C			No
	LaFarge Road Markings							
3M-01	3M Center Traffic	320	W	L, UL	B			No
	Control Mat'ls Lab.	320	W		C			No
	Bldg. 235-3B-55	321	Y	L	B			No
	St. Paul, MN 55144	321	Y		C			No
		A350	W	L, UL	B, C			Yes
		A351	Y	L, UL	B, C			Yes
		L350	W		B, C			Yes
		A380	W	L, UL	B, C			Yes
		A381	Y	L, UL	B, C			Yes
		5730	W	L, UL	B, C			Yes
		5731	Y	L	B, C			No
		6330	W		B, C			Yes
		SMS-L350	W		B, C			Yes
		SMS- 900	W		B, C			Yes
		330	W	L, UL	B	Yes	Ceramic	Yes
		330	W	L, UL	C	Yes	Ceramic	No
		340	W	L, UL	B	Yes	Ceramic	Yes
		340	W	L, UL	C	Yes	Ceramic	No
		380-1	W	L, UL	B, C	Yes	Ceramic	Yes
		341	Y	L	B	Yes	Ceramic	No
		381-1	Y	L, UL	B	Yes	Ceramic	Yes
		381-1	Y	L, UL	C	Yes	Ceramic	No

SECTION 961 : Traffic Division
COLD PLASTIC PAVEMENT MARKINGS OR LEGENDS

Lines = Center, Lane & Edge Lines
L = Lighted **B** = Bituminous Surface **W** = White
UL = Unlighted **C** = PCC Surface **Y** = Yellow
Other Uses = Crosswalks, Stop Lines, Legends & Crosshatching. ✪ **= Provisional Approval**

	Company	Material	Color	Lines	Surface	Primer	Beads	Other Uses
NIPCA	Nippon Carbide	SEIBULITE	W	L, UL	B			Yes
	3136 E. Victoria St.	SEIBULITE	W	L, UL	C			No
	Rancho Dominquez,	SEIBULITE	Y	L	B, C			No
	CA 90221							
SWAR1	Swarco Ind., Inc.	VISAMARK	W	L	B			No
	P. O. Box 89	VISAMARK	Y	L	B			No
	Columbia,	Director	W	L, UL	C			No
	TN 38402-0089	Director	W	L, UL	B			Yes
		Director	Y	L	C			No
		Director 60	W	L	B	Yes	SP	Yes
		Director 60	W	L, UL	C	Yes	SP	Yes
		Director 35	W	L	B, C	Yes	SP	Yes

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SECTION 962.2
PAINTING TRAFFIC LINES & MARKINGS

	Manufacturer	Formula	Color	Ref. No.
ENNIS	Ennis Paint, Inc. 1509 South Kaufman Ennis, TX 75119	EP415W03 EP415Y02 991001 991002 991009 991010 991011	White Yellow White White Yellow Yellow Yellow	02-026 02-027 03-179 03-180 03-181 03-182 03-183
SHER2	Sherwin Williams Co. 2325 Hollins Ferry Road Baltimore, MD 21230	BP17315	Yellow	02-145

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SECTION 964: Traffic Division
EPOXY PAVEMENT MARKINGS

Lines = Center, Lane & Edge Lines
L = Lighted **B** = Bituminous Surface **W** = White
UL = Unlighted **C** = PCC Surface **Y** = Yellow
Other Uses = Crosswalks, Stop Lines, Legends & Crosshatching. ✪ **= Provisional Approval**

	Company	Material	Color	Lines	Surface	Primer	Beads	Other Uses
ACCST	Accent Stripe	ACNT-W-A	W	L, UL	B, C			No
	3275 Benzing Road	ACNT-W-S	W	L, UL	B, C			No
	Orchard Park, NY 14127	ACNT-W-T	W	L, UL	B			No
		ACNT-Y-S	Y	L, UL	C			No
BALTP	Baltimore Paint & Chem.	TM8206	W	L, UL	B	No	M247	Yes
	Div. of Sherwin Williams	TM8207	Y	L, UL	B	No	M247	Yes
	2325 Hollins Ferry Rd	TM8207	Y	L, UL	C	No	M247	No
	Baltimore, MD 21230	TM8209	Y	L, UL	B	No	M247	Yes
		TM8209	Y	L, UL	C	No	M247	No
ENNIS	Ennis Paint, Inc.	E5118PA	W	L	B			No
	1509 South Kaufman	E5138	Y	L, UL	C			No
	Ennis, TX 75119	E5118FT2MP	W	L, UL	B			No
	Formerly: **(LARFM)**	E5118FT2MP	W	L	B			No
	LaFarge Road Markings	E5118FT2AC	W	L, UL	B			No
		E5118PO47	W	L, UL	C			No
		E5118MIX	W	L	B			No
		E5118MIX	W	L	C			No
		E5118MA120	W	L, UL	C			No
		E5118MA170	W	L	B			No
		E5118MA170	W	L, UL	C			No
EPOPX	Epoplex	LS5	W	L, UL	B, C			Yes
	Park Avenue	LS5	Y	L, UL	B, C			Yes
	Maple Shade, NJ 08052							
POLYC	Poly-Carb, Inc.	MARK55.2NV	W	L, UL	B, C	No	EPH4	Yes
	33095 Bainbridge Road	MARK55.2NV	Y	L, UL	B	No	EPH4	Yes
	Cleveland, OH 44139	MARK55.2NV	Y	L, UL	C	No	EPH4	No
		MARK55.2NVLF	Y	L, UL	B, C	No	EPH4	No

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SECTION 965 : Traffic Division
PREFORMED THERMOPLASTIC PAVEMENT MARKINGS

Lines = Center, Lane & Edge Lines
L = Lighted **B** = Bituminous Surface **W** = White
UL = Unlighted **C** = PCC Surface **Y** = Yellow
Other Uses = Crosswalks, Stop Lines, Legends & Crosshatching. ✪ **= Provisional Approval**

	Company	Material	Color	Lines	Surface	Primer	Beads	Other Uses
ENNIS	Ennis Paint, Inc.	LD981036	W	L, UL	B	No		Yes
	1509 South Kaufman	LD981035 ✪	W	L, UL	B	No		Yes
	Ennis, TX 75119							
	Formerly: **(LAFRM)**							
	Lafarge Road Markings							
FLINT	Flint Trading, Inc.	Premark	W		B			Yes
	P. O. Box 160	Premark	W		C			Yes
	Thomasville,	Premark 20/20 Flex+	W	L, UL	B, C	Yes		Yes
	NC 27361							
ZUMAR	Zumar Industries Inc.	W2D-7TX-90	W	L, UL	B, C			Yes
	P. O. Box 44549	W2D-8TX-90	W	L, UL	B			No
	Tacoma, WA 98444	W4D-7TX-26	W	L, UL	B			No
	Formerly: **(AVERY)**	W4D-7TX-26	W	L, UL	C			Yes
	Avery Dennison Corp.	W4D-7TX-90	W	L, UL	B			Yes
		9YPASTR96	Y	L, UL	B, C			Yes
		1WPASTR96	W	L, UL	B	No	PT260	Yes
		9WPASTR96	W	L	B	No	PT260	Yes
		9WPASTR96	W	L, UL	C	No	PT260	Yes
		9WPASTR96	Y	L	B	No	PT260	Yes
		9WPASTR96	Y	L, UL	C	No	PT260	No

SECTION 966 : Traffic Division
SNOWPLOWABLE RAISED PAVEMENT MARKERS

REFLECTOR UNITS

Colors: **W** = White **Y** = Yellow **RW** = Red/White **RY** = Red/Yellow
◆ = **Nonsnowplowable**

			Reflector Model #	Colors	Direction	Recessed
AVERY	Avery Dennison Corp.		940	W, Y	1 way	No
	Highway Safety Division		940	W, Y, RW, RY	2 way	No
	6565 West Howard Street		941	W, Y	1 way	No
	Niles, IL 60714.		944	W, Y	1 way	No
			944	W, Y, RW, RY	2 way	No
			948	W, Y, RW, RY	2 way	Yes
			948	W, Y	1 way	Yes
			953	W, Y	1 way	Yes
			953	W, Y	2 way	Yes
		◆	911	W, Y		No
		◆	88	W, Y		No
BUNZL	Bunzl Extrusion, Inc.	◆	TRPM	W, Y	1 & 2 way	No
	Tacoma Division	◆	TOM	W, Y	1 & 2 way	No
	3110 70th Ave. East	◆	RPM	W, Y	1 & 2 way	No
	Tacoma, WA 98424	◆	Halftrack	W, Y	1 & 2 way	No
3M-03	3M Traffic Control Mat'ls Div.		190	W, Y	1 way	No
	3M Center Bldg. 225-4N-14		190	W, Y, RW, RY	2 way	No
	St Paul, MN 55144-0100		194	W, Y	1 way	No
			198	W, Y	1 way	No
			198	W, Y, RW, RY	2 way	No
PACTC	Pac-Tec, Inc.		2002 G&H	W, Y	1 way	Yes
	1870 James Parkway		2002 B&D	W, Y	1 way	Yes
	Heath, OH 43056		2002 C	RW	2 way	Yes
VEGA-	Vega Molded Products, Inc.	◆	TPM	W, Y	1 & 2 way	No
	122 Industrial Drive	◆	CM	W, Y	1 & 2 way	No
	Gilberts, IL 60136					

SECTION 966 : Traffic Division
SNOWPLOWABLE RAISED PAVEMENT MARKERS

CASTINGS

◆ = **Bridge Deck Only**

		Casting Model #	Direction
AVERY	Avery Dennison Corp. Highway Safety Division 6565 West Howard Street Niles, IL 60714	94 & 94 LP 101 & 101 LP ◆ 101 LPS	1 Way 2 Way 1 Way / 2 Way
HALEN	Hallen Products, Ltd. 4090 Ryan Road, Suite A Gurnee, IL 60031	H-960 LP H1010 LP (Narrow)	1 Way / 2 Way 1 Way / 2 Way
NIGHT	Nightline Markers, Inc. 1030 Seaview Court Schaumburg, IL 60193	B-250	1 Way / 2 Way
PACTC	Pac-Tec, Inc. 1870 James Parkway Heath, OH 43056	Model 200 Snow-Lite	2 Way

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SECTION 1001.2(h)2
METAL BRIDGE DECK FORMS
Steel Products Procurement Act applies.
ASTM-A446 Grade A To E

		GRADE	REF. NO.
CONS1	Consolidated Systems, Inc. P. O. Box 1756 Columbia, SC 29202 Plant:	A, B, C, D, E	89-125
CONS2	Memphis, TN		
D-MAC	D-Mac Ind., Inc. 1900 Grassland Parkway Alpharetta, GA 30004	C	89-265
EPIC-	Epic Metals Corp. 11 Talbot Ave. Rankin, PA 15104	C, D	92-243
SIPDE	SIP, Inc. of DE 1101 E. 8th Street Wilmington, DE 19801-4356	A, B, C, D, E	----------
UNSDK	United Steel Deck, Inc. 14 Harmich Road South Plainfield, NJ 07080	C D	85-024 95-076
WHCC0	Wheeling Corrugated Co. Div. Wheeling-Pittsburgh Steel 1134 Market St. Wheeling, WV 26003 Plants:		
WHCC1	Beech Bottom, WV	A, B, C, D, E	----------
WHCC3	Warren OH		

SECTION 1002.2(c)
Mechanical Splice System

NOTE: Assemble mechanical splices as per mfg'ers recommended procedure. Assemble a set of three (3) splices for each size reinforcing bar to be used. Submit to the MTD for testing to verify procedure.

			Ref. No.
BARSP	BarSplice Products, Inc. 1300 Grange Hall Road Beavercreek, OH 45430	BPI-Grip "BarGrip" system ZAP Screwlok Rebar Coupler Sys. BPI Barsplicer System	96-198 96-255 00-204
DAYBL	Dayton Bar Lock P.O. Box 28280 Bellingham, WA 98228-0280	(L) Coupler	92-351
DAYT0	Dayton Superior Dayton / Richmond Conc. Acc. Div. 721 Richard St. Miamiburg, OH 45342	US/MC-SAE Rebar Splice DB/DI Splice Connector US/MC Friction Weld (DWI & Coupler)	94-219 89-288 97-096
ERIC-	Erico, Inc. 34600 Solon Road Solon, OH 44139	Lenton Standard Coupler System	96-118
SSNA-	Splice Sleeve North America 4345 East Lowell St., Suite A Ontario, CA 91761	NMB Splice Sleeve	95-102
SUMEP	Summit Engineered Products, Inc. 1225 Camden Avenue SW Canton, OH 44706	Lenton Form Saver	03-063

SECTION 1002.3(d)2
RE-BAR SUPPORT CHAIRS
Steel Products Procurement Act applies

			Ref. No.
AZTEC	Aztec Concrete Accessories, Inc. 14760 Santa Ana Ave. Fontana, CA 92337	Aztec E Z Lok Slab Bolster 2" & 2-1/2", Moulded Plastic Aztec E Z Chair 2", 2-1/2", 3", 4", & 5", Moulded Plastic	97-063 97-064
DAYT0	Dayton Superior Dayton / Richmond Conc. Acc. Div. 721 Richard St. Miamiburg, OH 45342	Epoxy Coated HCM Galvanized w/plastic tips SBU Galvanized	85-013 87-374A 87-374B
MDSP0 **MDSP1**	Meadow Burke Prod., Div MMI Prod. RR #1, 565 Oak Ridge Road Hazelton, PA 18201 Newington, VA	Epoxy Coated Galvanized Beam Bolster (support chair)	00-056 00-058 92-355
VIMC-	Vimco, Inc. 300 Hansen Access Road King of Prussia, PA 19406	Stainless Steel Plastic & Plastic Tipped Galvanized Coated	84-006 84-006

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SECTION 1005.2(b)
CAST-IN-PLACE CONCRETE PILES (STEEL SHELLS)

Manufacturers of Cast-In-Place Concrete Piles (Steel Shells) must conform to Department Specifications, Publication 408, Section 1005.2(b)

Monday, April 26, 2004

SECTION 1005.2(c)
STEEL H-PILE TIPS

			Ref. No.
ASSPF	Assoc. Pile & Fitting Corp. 262 Rutherford Blvd. Clifton, NJ 07014-1048	Pruyn Point H-Pile Tips	94-286
PILAC	Piling Accessories Inc. 1704 Tower Industrial Drive Monroe, NC 28110	PAR-T Series H-Pile Points	94-042
VERSA	Versabite Foundation Accessories 19600 SW Cipole Road Tualatin, OR 97062	VB 300P Series H-Pile Points Part # VB312PO	96-053
VERST	Versa-Steel, Inc. 1618 NE 1st Avenue Portland, OR 97219	VS-300 N Series H-Pile Points	02-063

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SECTION 1012
ALUMINIUM PEDESTRIAN RAILING

		Ref. No.
AUCEL	Auciello Iron Works Inc 560 Main Street, P. O. Box 424 Hudson, MA 01749	91-009B
AVOCA	Avoca Machine Company, Inc. 203 Clarke Road Duryea, PA 18642	03-120
FOST0	Foster, L. B. Co P. O. Box 2806, Foster Plaza Pittsburgh, PA 15230	----------
FOST2	Bedford, PA	
HALL2	Hall Industries, Inc. 514 Mecklem Lane Ellwood City, PA 16117	02-178
NEBRG	New England Bridge Products, Inc. 93-95 Brookline Street Lynn, MA 01902	99-197
SIGMA	Sigma Industries P. O. Box 347 Selbyville, DE 19975	98-034
WARD-	Ward Weller Co., Inc. 25 Southgate Street Worcester, MA 01610	99-004

Section 1013
ALUMINUM BRIDGE RAILINGS

		REF. NO.
ALUMS	Aluminum Shapes, Inc. 9000 River Rd. Delair, NJ 46218	----------
AVOCA	Avoca Machine Company, Inc. 203 Clarke Road Duryea, PA 18642	03-120
FOST0	Foster, L. B. Co P. O. Box 2806, Foster Plaza Pittsburgh, PA 15230	----------
FOST2	Bedford, PA	
HALL2	Hall Industries, Inc. 514 Mecklem Lane Ellwood City, PA 16117	02-178
MAGND	Magnode Prod., Inc. 400 East State St. Trenton, OH 45067	----------
NEBRG	New England Bridge Products, Inc. 93-95 Brookline Street Lynn, MA 01902	99-197
RELCC	Reliable Casting Corp. 3530 Spring Grove Ave. Cincinnati, OH 45223	----------
SIGMA	Sigma Industries P. O. Box 347 Selbyville, DE 19975	98-033
WARD-	Ward Weller Co., Inc. 25 Southgate Street Worcester, MA 01610	84-010

Section 1014
STEEL BRIDGE RAILING
Steel Products Procurement Act applies

		REF. NO.
AVOCA	Avoca Machine Company, Inc. 203 Clarke Road Duryea, PA 18642	03-120
COPPE	Copperweld 1855 East 122nd Street Chicago, IL 60633-2497	85-173
FOST0	Foster, L. B. Co. P. O. Box 2806, Foster Plaza Pittsburgh, PA 15230	----------
FOST2	Bedford, PA	
HALL2	Hall Industries, Inc. 514 Mecklem Lane Ellwood City, PA 16117	02-178
NEBRG	New England Bridge Products, Inc. 93-95 Brookline Street Lynn, MA 01902	99-198
RP-MA	R. P.'s Machinery Sales, Inc. R. D. #4, P. O. Box 507 Jersey Shore, PA 17740	04-016
SIGMA	Sigma Industries P. O. Box 347 Selbyville, DE 19975	98-033
WARD-	Ward Weller Co., Inc. 25 Southgate Street Worcester, MA 01610	03-037

Section 1015
PROTECTIVE BARRIER - ALUMINUM

		REF. NO.
AUCEL	Auciello Iron Works, Inc. 560 Main St. Hudson, MA 01749	96-055
AVOCA	Avoca Machine Company, Inc. 203 Clarke Road Duryea, PA 18642	03-120
FOST0	Foster, L. B. Co. P. O. Box 2860, Foster Plaza Pittsburgh, PA 15230	----------
FOST2	Bedford, PA	
NEBRG	New England Bridge Products, Inc. 93-95 Brookline Street Lynn, MA 01902	90-194
WARD-	Ward Weller Co., Inc. 25 Southgate Street Worcester, MA 01610	99-005

Section 1016.2(a)3
PROTECTIVE FENCE

ITEM		REF. NO.
SIGMA	Sigma Industries P. O. Box 347 Selbyville, DE 19975	92-245A
WARD-	Ward Weller Co., Inc. 25 Southgate Street Worcester, MA 01610	03-038

SECTION 1019.2(b)
PROTECTIVE COATINGS FOR CONCRETE STRUCTURES
Epoxy-Resin (for Abutments, Pier Caps and Endwalls)

			REF. NO.
AXSON	Axson North America, Inc. 1611 Hults Drive Eaton Rapids, MI 48827	AKA-Coat 700	89-008
BRUDR	Bruder, M. A. & Sons, Inc. 600 Reed Road Broomall, PA 19008	Plt-Tile 520 H.B. epoxy	88-285
CHEMM	Chem Masters 300 Edwards St. Madison, OH 44057	Duraguard 110 Epoxy	95-306
CHMRX	ChemRex, Inc. 889 Valley Park Drive Shakopee, MN 55379	Concresive 3025	84-227
KAUFM	Kaufman Prod., Inc. 3811 Curtis Ave. Baltimore, MD 21226-1131	Sure Poxy Coating	81-047

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SECTION 1019.2(b)
PROTECTIVE COATINGS FOR CONCRETE STRUCTURES
Epoxy-Resin (for Abutments, Pier Caps and Endwalls)

			REF. NO.
SHER1	Sherwin Williams Co. 313 Technology Drive Malvern, PA 19355	All Weather Epoxy	91-005
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Dural 304 DOT	94-241
UNICH	Unichem Coatings Co. RD. #1, Box 246 New Ringgold, PA 17960	Unitile 2 Component Epoxy Coat	88-053
VEXCN	Vexcon Chemicals, Inc. 7240 State Road Philadelphia, PA 19135	Powercoat Epoxy Resin	97-135

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SECTION 1020.2
TOOTH EXPANSION DAM WITH DRAIN TROUGH

Any AISC, category I, II, or III certified shop may manufacture this product.
The following are those who currently have manufactured this product.

			REF. NO.
COLNW	Colonial Iron Works 35 Meadow Lane P. O. Box 278 Cannonsburg, PA 15317		
FABRK	Fabreeka International, Inc. 1023 Turnpike Street P. O. Box 210 Stroughton, MA 02072	Fabric-Elastomer trough mat'l 1020.2(h)	85-015
FOST0	Foster, L. B. Co. P. O. Box 2806 Pittsburgh, PA 15230		
FOST2	Bedford, PA		
RP-MA	R. P.'s Machinery Sales, Inc. R. D. #4, P. O. Box 507 Jersey Shore, PA 17740		
REYNL	Reynolds Manufacturing Co. Sixth St., Route 156, P.O. Box 627 Avonmore, PA 15618		
SAFGD	Safety Guard Steel Fabricating Co. 133 Linclon Avenue Pittsburgh, PA 15209		
WATSB	Watson Bowman Acme Corp. 95 Pineview Drive Amherst, NY 14228		

SECTION 1022.2(a)
STEEL BRIDGE HAND RAILING (Galvanized)

			REF. NO.
AVOCA	Avoca Machine Company, Inc. 203 Clarke Road Duryea, PA 18642	Fabricator	03-120
FOST0	Foster, L. B. Co. P. O. Box 2806, Foster Plaza Pittsburgh, PA 15230	Fabricator	Ltr 07/19/96
FOST2	Bedford, PA		
HALL2	Hall Industries, Inc. 514 Mecklem Lane Ellwood City, PA 16117	Fabricator	02-178
MCGRE	McGregor Architectural Iron Co. Inc. Lime Street, Keystone Ind. Park Dunmore PA, 18512	Fabricator ASTM A-53, Schedule 40, galvanized railing	91-286
NEBRG	New England Bridge Products, Inc. 93-95 Brookline Street Lynn, MA 01902	Fabricator	99-198
RP-MA	R. P.'s Machinery Sales, Inc. R. D. #4, P. O. Box 507 Jersey Shore, PA 17740	Fabricator	04-016
WARD-	Ward Weller Co., Inc. 25 Southgate Street Worcester, MA 01610	Fabricator	99-005

SECTION 1023.2
ALUMINIUM BRIDGE HAND RAILING

			REF. NO.
AUCEL	Auciello Iron Works, Inc. 560 Main St., P. O. Box 424 Hudson, MA 01749	Fabricator	91-009C
AVOCA	Avoca Machine Company, Inc. 203 Clarke Road Duryea, PA 18642	Fabricator	03-120
FOST0 **FOST2**	Foster, L. B. Co. P. O. Box 2806, Foster Plaza Pittsburgh, PA 15230 Bedford, PA	Fabricator	Ltr 07/19/96
HALL2	Hall Industries, Inc. 514 Mecklem Lane Ellwood City, PA 16117	Fabricator	02-178
NEBRG	New England Bridge Products, Inc. 93-95 Brookline Street Lynn, MA 01902	Fabricator	99-197
WARD-	Ward Weller Co., Inc. 25 Southgate Street Worcester, MA 01610	Fabricator	99-005

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SECTION 1026.2
BRIDGE: NEOPRENE STRIP SEAL DAM
STRIP SEAL RETAINERS (detail on drawing BC-767 sheet 2 of 3)

		Retainer ID/ Shop Drawing No.	Ref. No.
BROWD	Brown, D. S., Co., Inc. 300 East Cherry Street North Baltimore, OH 45872	SSPA02SC SSA2, 2" depth * SSE2, 1.5" depth * * (As per SOL 431-97-23)	---------- 96-195 96-196
WATSB	Watson Bowman Acme Corp. 95 Pineview Drive Amherst, NY 14228	C-11382 C-12164 C-14398	---------- 92-027 92-327
WATRJ	Watson, R. J., Inc. 78 John Glenn Drive Amherst, NY 14228	PADOT 92-280-PEQ SV-400	92-280 92-039

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SECTION 1031.2(a)
STRUCTURAL TIMBER

❶ Softwood (Non-Laminated) ❷ Softwood (Glue-Laminated)

❸ Softwood (Mechanically-Laminated) ❹ Treater

		TYPE		REF. NO.
ALAWP	Alamco Wood Products, Inc. 1410 West Ninth Street Albert Lea, MN 56007	❷		00-236
BELLP	Bell Lumber & Pole Co. P.O. Box 120786 New Brighton, MN 55112-0024	❹		99-110
BURPB	Burke-Parsons-Bowlby Corp. R.R #3, Box 275 DuBois, PA 15801	❹		02-079
KOPRS	Koppers Industries, Inc. 50 Koppers Lane Montgomery, PA 17752	❹		99-194
MIDWS	Midwestern Wholesalers, Inc 4832 Plank Rd., Box 809 Norwalk, OH 44857	❶		95-268
MIDWW	Midwest Wood Treating, Inc. Div. of Midwest Wholesalers, Inc. 4832 Plank Road, P. O. Box 610 Norwalk, OH 44857	❹		----------
POCOP	Pocopson Industries, Inc. 919 Pocopson Road West Chester, PA 19382	❶	❸	03-071
RIGID	Rigidply Rafters, Inc. 701 East Linden Street Richland, PA 17087	❷	❸	99-176

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SECTION 1051
DOWNSPOUTING

			REF. NO.
FOST0	Foster, L. B. Co. P. O. Box 2806, Foster Plaza Pittsburgh, PA 15230	Steel Downspouting	----------
FOST2	Bedford, PA		
HARVL	Harvel Plastics, Inc. 300 Kuebler Road, Forks Twp. Easton, PA 18040	PVC Downspouting	01-107
NWPRT	Newport Steel Corporation 9th & Lowell Streets Newport, KY 41072	Steel Downspouting	98-124

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Pennsylvania Department of Transportation
PENNDOT

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SECTION 1060 : PAINTING STRUCTURAL STEEL
✪ NEPCOAT APPROVED PAINT SYSTEMS
LIST 1: V O C Compliant (Primer) - Inorganic Zinc Systems

Monday, April 26, 2004

		Primer VOC	Intermediate VOC	Finish VOC
AMER0	Ameron 11605 Vimy Ridge Road Little Rock, AK 72219	Dimetcote 9HS 2.7	Amercoat 385 2.3	Amercoat 450HS 2.4
CARBL	Carboline Co. 350 Handley Ind. Court St. Louis, MO 63144	Carbozinc 11 HS 2.4	Carboguard 893 1.6	Carbothane 133 HB 3.2

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Monday, April 26, 2004

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SECTION 1070 : Painting Existing Structural Steel
APPROVED THREE COAT INORGANIC ZINC-RICH SYSTEMS

	MANUFACTURER	INORGANIC Zinc Primer	EPOXY Intermediate Coat	URETHANE Finish Coat
BRUDR	Bruder, M. A 600 Reed Road P. O. Box 600	24-A-150	520-W-360	Ply-thane 880
CARBL	Carboline Co. 350 Handley Ind. Court St. Louis, MO 63144	CarboZinc No. 11	No. 190 HB	No. 134
DUPT0	E. I. DuPont Co. 7961 Winchster Road Front Royal, Va. 22630	347-Y-931	Corlar High Build No. 823 Y-line	Imron 326-Y-Line
ICIDV	ICI / Devoe Coatings 6520 Monroe Avenue Sykesville, MD 21784	Catha Coat 304	Bar Rust 235	Devthane 359
TNEMC	Tnemec Company, Inc. 123 West 23rd St. North Kansas City, MO 64116-3094	90E-92 Tneme-Zinc 90E-92 Tneme-Zinc	Series 66 Hibuild Expoline Series 66 Hibuld Expoline	Series 70 Endura-Shield Series 72 Endura-Shield

SECTION 1070 : Painting Existing Structural Steel
APPROVED THREE COAT INORGANIC ZINC-RICH SYSTEMS (continued)

	MANUFACTURER	INORGANIC Zinc Primer	VINYL Intermediate Coat	VINYL Finish Coat
CARBL	Carboline Co 350 Handley Ind. Court St. Louis, MO 63144	Carbo Zinc No 11	Polyclad No. 935	HB No. 936 Vinyl
ICIDV	ICI / Devoe Coatings 6520 Monroe Avenue Sykesville, MD 21784	Catha Coat 304 Catha Coat 302	Chem-Vy-Kote P62 Chem-Vy-Kote P62	HAS 445 Vinyl HAS 445 Vinyl
SHER1	Sherwin Williams 313 Technology Drive Malvern, Pa 19355	Zinc Clad II B69V3/B69D11	Hi Bild Vinyl B64	Hi Bild Vinyl B64

SECTION 1070 : Painting Existing Structural Steel
APPROVED THREE COAT INORGANIC ZINC-RICH SYSTEMS (continued)

A = Acrylic
CR = Chlorinated Rubber
U = Urethane
AL = Acrylic Latex
P = Phenolics
VA = Vinyl Acrilic
E = Epoxy
V = Vinyl
AU= Aliphatic Urethane

	Manufacturer	Inorganic Zinc Primer	Intermediate Coat	Finish Coat
CARBL	Carboline Co 350 Handley Ind. Court St. Louis, MO 63144	Carbo Zinc 11	3630LB (CR)	3630 HB (CR)
DUPT0	E. I. DuPont Co. 7961 Winchster Road Front Royal, Va. 22630	Ganicin 347-Y-931	Corlar 823-VF519 (E)	Corlar HB 823
ICIDV	ICI / Devoe Coatings 6520 Monroe Avenue Sykesville, MD 21784	Catha Coat 304	Bar Rust 235	Devchlor 473

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SECTION 1071.2(a)
Approved Field Maintenance Structural Paint Systems
(Organic Zinc Primer VOC Compliant)

LIST 1

	Manufacturer	Primer VOC	Intermediate VOC	Finish VOC
CARBL	Carboline Co 350 Handley Ind. Court St. Louis, MO 63144	Carboline 621* 2.9	Carboline 133HB* 3.1 (* = 2 packages)	Carboline 134HS* 2.4
ELITE	Elite Coatings Co. P. O. Box 130 Gordon, GA 31031	321 Polyurethane 3.2	323 Polyurethane	325 Polyurethane 3.5
DAVPM	Davis-Frost Paint P. O. Box 10578 3416 Candler's Mountain Rd Lynchburg, VA 24506-0578	P149 Urethane org. zinc rich primer 2.9	E-426 Shinethane intermediate (AU) 3.5	Shinethane acrylic urethane HS (AU) 2.8
ICIDV	ICI / Devoe Coatings 6520 Monroe Avenue Sykesville, MD 21784	Catha Coat 310 3.3	Devthane399 3.5	Devthane 399 3.5

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SECTION 1071.2(a)
Approved Field Maintenance Structural Paint Systems
(Organic Zinc Primer VOC Compliant)

LIST 1

	Manufacturer	Primer VOC	Intermediate VOC	Finish VOC
PPG-P	PPG Industries 1 PPG Place Pittsburgh, PA 15272	UC-55667 3.5 Other Colors acceptable	UC-55657 3.5	UC-55656 3.5
TNEMC	Tnemec Company, Inc. 123 West 23rd St. North Kansas City, MO 64116-3094	Tnemec-Zinc 90-97 2.7	Endura-Shield III 73 Series 3.5	Endura-Shield 74 Series 2.3
		90-97 2.7	69 Series (HBE) 2.3	74 Series (HBAU) 2.3
		90-97 2.7	69 Series (HBE) 2.3	75 Series (HBAU) 2.3
WASER	Wasser High Tech Coatings 1004 W. James St.,Suite 100 Kent, WA 98032	MC-Miozinc 2.8	MC-Ferrox B 2.8	MC-Ferrox A 3.5
XYMAX	Xymax Coatings, Inc. 520,boul. Cure'-Boivin Boisbriand, Quebec Canada J7G 2A7	MonoZinc 3.5	MonoFerro 3.5	Max Coat II 3.5

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SECTION 1071.2(a)
Approved Field Maintenance Structural Paint Systems
Aluminum-Filled Mastic (VOC Compliant)

LIST 2

	Manufacturer	Primer VOC	Intermediate VOC	Finish VOC
AMER0	Ameron 11605 Vimy Ridge Road Little Rock, AK 72219	Amerlock 400 AL 1.9	Amerlock 400 AL 1.9	Amerlock 455 GL 450 HS 2.8
BRUDR	Bruder, M. A 600 Reed Road Broomall, PA 19008	Plymastic 101 0.7	Plymastic 101 0.7	PlyThane 880(U) 2.5
CARBL	Carboline Co 350 Handley Ind. Court St. Louis, MO 63144	Carbomastic 15 0.7 Carbomastic 90 0.7	Carbomastic 15 0.7 Carbomastic 90 0.7	134 HS(U) 2.4 134 HS(U) 2.4
DUPT0	E. I. DuPont Co. 7961 Winchster Road Front Royal, Va. 22630	25P 2.2	25P 2.2	50P 3.5
ELITE	Elite Coatings Co. P. O. Box 130 Gordon, GA 31031	Elite 7510 0.8	Elite 7510 0.8	Elite 4045 3.2

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SECTION 1071.2(a)
Approved Field Maintenance Structural Paint Systems
Aluminum-Filled Mastic (VOC Compliant)

LIST 2

	Manufacturer	Primer VOC	Intermediate VOC	Finish VOC
SHER1	Sherwin Williams 313 Technology Drive Malvern, Pa 19355	Epolon 81 1.6	Epolon 81 1.6	Acrolon II 2200 Series 3.1
TNEMC	Tnemec Company, Inc. 123 West 23rd St. North Kansas City, MO 64116-3094	Chembuild 135-1243 1.1	Chembuild 135-1243 1.1	Endura-Shield (AU) Series 74 2.3

SECTION 1071.2(a)
Approved Field Maintenance Structural Paint Systems
Non-Zinc Primer (VOC Compliant)

LIST 3

	Manufacturer	Primer VOC	Intermediate VOC	Finish VOC
SHER1	Sherwin Williams 313 Technology Drive Malvern, Pa 19355	B42N8 (2 Coats)(A) 2.0	DTM B66 Series (A) 1.9	DTM B66 Series(A) 1.9

SECTION 1080.2(c)
PRE-MIXED NONSHRINK GROUT

For Shear Keys in adjacent Prestressed Concrete Box Beam Bridges & other areas where flowable grout is required

◆ **One Day Compressive Strength is Equal to or Greater than 26 Mpa (3750 psi)**

❶ **Non-Metalic, Non-Staining** ❷ **Metalic, Non-Staining** ❸ **Metalic Grout Admixture**

	MANUFACTURER	PRODUCT	TYPE	REF. NO.
ADMXT	Admixtures, Inc. 34 E. Lancaster Ave. P. O. Box 125 Shillington, PA 19607	BC Grout BC NS BC Non-shrink Grouting & Aggregates	❶ ❷ ❸	76-053 76-085 76-085
CGM-N	CGM Inc. 1463 Ford Rd. Bensalem, PA 19020	Pro-Grout 90	❶, ◆	87-083
CHEMM	Chem Masters 300 Edwards Street Madison, OH 44057	Conset Grout	❶, ◆	92-241
CHMRX	ChemRex, Inc. 889 Valley Park Drive Shakopee, MN 55379	ThoRoc S Grout Sonogrout 14K Sonogrout 10K Masterflow 713 Masterflow 816 Set Grout Masterflow 636 MBSCA	❶, ◆ ❶ ❶ ❶ ❶ ❶, ◆ ❷ ❸	90-235 75-054 94-263 76-006 75-005 87-058 76-005 ----------
CONSM	Concrete Service Matl's Co. Elm & Walnut St. P. O. Box 447 Conshohocken, PA 19428-0447	Diamondcrete CSC Shrinkproof	❶ ❸	72-067 ----------

SECTION 1080.2(c)
PRE-MIXED NONSHRINK GROUT

For Shear Keys in adjacent Prestressed Concrete Box Beam Bridges & other areas where flowable grout is required

◆ **One Day Compressive Strength is Equal to or Greater than 26 Mpa (3750 psi)**

❶ **Non-Metalic, Non-Staining** ❷ **Metalic, Non-Staining** ❸ **Metalic Grout Admixture**

	MANUFACTURER	PRODUCT	TYPE	REF. NO.
DAYT1	Dayton Superior 4226 Kansas Avenue Kansas City, KS 66106	Suregrip Hi-Perf	❶, ◆	82-094
		Suregrip Util.	❶, ◆	91-055
EUCLD	Euclid Chem. Co. 19218 Redwood Rd. Cleveland, OH 44110	Eco-Grout **(Epoxy System with Quartz aggregate)**	❶	76-019
		Firmix Iron Agg.	❸	76-020
		Euco Grout NS	❸	76-019
		Hi-Flow Grout	❶	02-152
		Euco Cable Grout PTX	❷	04-008
5STAR	Five Star Products, Inc. 425 Stillson Rd. Fairfield, CT 06430	5 Star	❶	70-012
		5 Star Instant	❶, ◆	76-060
		NBEC Grout	❶	90-380
GILLI	Gill Industries, Inc. 650 MacCorkle Ave., S.W. St. Albans, WV 25177	Gill 33B & P	❶	72-050
IPA-S	IPA Sys., Inc. 2745 North Amber St. Philadelphia, PA 19134	Penn Grout	❶, ◆	75-079

SECTION 1080.2(c)
PRE-MIXED NONSHRINK GROUT

For Shear Keys in adjacent Prestressed Concrete Box Beam Bridges & other areas where flowable grout is required

◆ **One Day Compressive Strength is Equal to or Greater than 26 Mpa (3750 psi)**

❶ **Non-Metalic, Non-Staining** ❷ **Metalic, Non-Staining** ❸ **Metalic Grout Admixture**

	MANUFACTURER	PRODUCT	TYPE	REF. NO.
KAUFM	Kaufman Prod., Inc. 3811 Curtis Ave. Baltimore, MD 21226-1131	Sure Grout Sure Grout-Met Sure Grout Met Agg.	❶, ◆ ❷ ❸	76-048 81-052 81-053
KELKN	Kelken Construction Systems P. O. Box 284 3220 Bordentown Ave. Parlin, NJ 08859	Keligrout	❶	86-125
L&MCC	L&M Constr. Chem., Inc. 14851 Calhoun Road Omaha, NE 68152	Crystex Duragrout	❶, ◆ ❶, ◆	76-032 90-175
MEDW0	W. R. Meadows, Inc. 300 Industrial Drive P.O. Box 338 Hampshire, IL 60140-0338	Sealtight 588 CG86 Grout	❶, ◆ ❶	84-165 93-292
MEDW1	York, PA			
NATPC	National Permacrete Co. 590 N. Vally Forge Rd. P. O. Box 886 Deon, PA 19333	Permagrout	❶, ◆	76-088

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SECTION 1080.2(c)
PRE-MIXED NONSHRINK GROUT

For Shear Keys in adjacent Prestressed Concrete Box Beam Bridges & other areas where flowable grout is required

◆ **One Day Compressive Strength is Equal to or Greater than 26 Mpa (3750 psi)**

❶ **Non-Metalic, Non-Staining** ❷ **Metalic, Non-Staining** ❸ **Metalic Grout Admixture**

	MANUFACTURER	PRODUCT	TYPE	REF. NO.
PREBL	Pre-Blend Products, Inc. 100 Ben Fairless Drive Fairless Hills, PA 19030	Pre-Blend	❶	72-054
QUIKR	The Quikrete Companies One Securities Center 3490 Piedmont Rd N.E., Suite 1300 Atlanta, GA 30305	1585-00 Precision Grout General Purpose Grout	❶, ◆ ❶	00-289 00-290
SIKA1 **SIKA2**	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302 Lyndhurst, NJ	Sikagrout 212	❶	83-219
SYMNS	Symons Corp. 200 East Touhy Ave. Des Plaines, IL 60018	Symons Multipurpose Construction Grout	❶	86-040
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Horn Grout	❶	00-281
VEXCN	Vexcon Chemicals, Inc. 7240 State Road Philadelphia, PA 19135	Certi-Grout 1000	❶, ◆	00-071

SECTION 1080.2(e)
MORTAR FOR BEAM SEAT LEVELING

	Company Name	Product	Ref. No.
SIKA1	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302	Sikatop Plus 122 Sikatop Plus 123	79-036 82-007
SIKA2	Lyndhurst, NJ		

SECTION 1085
PRECAST BOX CULVERTS

			REF. NO.
BYCRT	Bycrete Fabrications 517 King Street Lebanon, PA 17042		01-221
DUTCH	Dutchland, Inc. 160 Route 41, P.O. Box 549 Gap, PA 17527-0549		03-185
EASST	Eastern States Steel Corp 121 Industrial Ave. Upper Saddle River, NJ 07458	Reinforcement Spacers	88-046
HAWKP	Hawkins Precast Concrete Products 780 Route # 910 Cheswick, PA 15024		03-136
HYDR1	Hydro Conduit Division of Rinker Materials 2000 Gregg Station Road, P.O. Box 126 Oakdale, PA 15071		
HYDR3	Diamond, OH		Ltr 05/27/92
HYDR4	Frederick, MD		01-171

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SECTION 1085
PRECAST BOX CULVERTS (continued)

		REF. NO.
MACK0	Mack Industries of PA, Inc. 2207 Sodom Hutchings Road Vienna, OH 44473	
MACK1	Valley City, OH	Ltr 09/21/90
MILL0	Miller, A. C. Concrete Prod., Inc. P. O. Box 93, Rt 22 Blairsville, PA 15717	Ltr.11/20/87
MILL1	Spring City, PA 19475	00-241
MPCP1	Modern Precast Concrete Products 2863 Brodhead Road Bethlehem, PA 18020	99-091
NITT0	Nitterhouse Concrete Prod. Box N Chambersburg, PA 17201-0813	Ltr 01/02/92
ROTP1	Rotondo/Penn Cast 514 Township Line Rd. Telford, PA 18969	
TERH0	Terre Hill Concrete Prod. P. O. Box 10 Terre Hill, PA 17581	
TERH1	Lebanon, PA	Ltr 05/17/89
TOP-R	Top-Roc Newcrete Prod. Co. 2210 Manchester Rd. Erie, PA 16506	Ltr 01/07/90

Note: For Protective Coatings, see Miscellaneous Section, "Coal Tar Epoxy".

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SECTION 1086
SOUND BARRIERS

Wall Panels Listed Below are Alternates to "Section 1086.2b Wall Panels" and are covered under a Special Provision or Strike Off Letter listed below.

Panels may be used as an alternate or "as-designed" on a project by project basis.

◆ **Provisional Approval : ETI Division must be contacted prior to use. (717) 787-3137**

❶ **Fiberglass Reinforced Polymer Composite Panels with Recycled Tire Rubber Core Special Provision S00 (PD10861A)**

❷ **Drycast Reinforced Concrete Panels Special Provision S00 (ID10861A)**

❸ **Fiberglass and Steel Reinforced Panels with Polystyrene Foam Core Strike Off Letter 431-93-36**

			REF. NO.
CARST	Carsonite International Corp. 10 Bob Gifford Blvd. Early Branch, SC 29916-0098	◆ ❶ "Sound Barrier" Panels as per SOL 431-99-07	97-185
FADD1	Faddis Concrete Prod. 3515 Kings Highway Dowingtown, PA 19335	❷ Fence-Crete "Type A" Panels as per SOL 431-97-10	91-317
		❷ Fence-Crete "Type B" Panels as per SOL 431-98-24	97-165
MANMT	Manning Materials Co. 680 Ben Franklin Hwy Birdsboro, PA 19508	❸ Sound Zero	91-202

Also see Section 714, "Precast Concrete Products" or Miscellaneous Section, "Precast Concrete Products", Alternate Sound Barrier Systems

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SECTION 1101
HIGHWAY LIGHTING (Poles)

Pole Fabricators:		❶ Steel	❷ Aluminum
HAPCO	Hapco/American Flag 26252 Hillman Highway Abington, VA 24210		❷
PENST	Penn Summit Tubular, LLC 225 Kiwanis Blvd. West Hazleton, PA 18201	❶	❷
SCEMC	Spring City Electrical Mfg. Co., Inc. Hall & Main St., P.O. Box 19 Spring City, PA 19475		❷
STEVL	Sternberg Vintage Lighting 7401 Oak Park Avenue Niles, IL 60714		❷
UNIMC	Union Metal Corp. 1432 Maple Avenue, N.E. Canton, OH 44705	❶	❷
VALM0	Valmont Industries, Inc. Highway #275 Valley, NE 68064 Plants:		
VALM1	Valley, NE 68064	❶	❷
VALM2	Elkhart, IN 46517	❶	❷
VALM4	Ste-Julie, Quebec, Canada		❷
VALUE	Value Structures, Inc. 700 Second Street Ellwood City, PA 16117	❶	

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SECTION 1101.09 CONDUIT : Highway Lighting
MANUFACTURERS OF ELECTRICAL CONDUIT

In lieu of certification, submit Catalog Cuts and/or Shop Drawings to the Engineer for approval as specified in Publication 408, Section 1101.01. Refer to the Project Office Manual for material information requirements.

SECTION 1101.10 : Highway Lighting
JUNCTION BOXES

Steel or Cast Iron Junction Boxes & Frames, See Section 605.2(a)
Precast Concrete Junction Boxes, See Section 714

SECTION 1103.02 & 1103.03
FABRICATED ALUMINUM SIGN MANUFACTURERS

DONLN	Donalyn Company, Inc.	32919 Logan Hornsmill Road, Logan, OH 43138
GARDS	Garden State Highway Prod., Inc.	1740 East Oak Road, Vineland, NJ 08361
HIGHS	Highway Signs, Inc., Div of Elderlee, Inc.	729 Cross Road, Oaks Corners, NY 14518-0010
INSHS	Interstate Highway Sign Co.	7415 Lindsey Road, Little Rock, AR 72206
LYLE-	Lyle Signs, Inc.	7934 Wallace Road, Eden Prairie, MN 55344
PROTE	Protection Services, Inc.	635 Lucknow Lane, Harrisburg, PA 17110
ROCAL	Rocal, Inc.	24 South Main Street, Frankford, OH 45628
TRFSC	Trafco Supply Co.	1420 Ford Avenue, Harrisburg, PA 17109
URNA1	United Rentals Hwy Tech., Inc.	4091 Saltsburg Road, Suite M, Murrysville, PA 15668
WHSMC	Whitco Sign & Manufacturing Corp.	170 Tapley Street, Springfield, MA 01104
WILLG	Williams Graphics, Inc.	2200 Spring Garden Ave.,Pittsburgh, PA 15212

SECTION 1103.02(c) : Traffic Division
REFLECTIVE SHEETING

H A = Heat Activated **P S = Pressure Sensitive** **R S = Reboundable Sheeting**

R U = RESTRICTED USE

B = Blue **R = Red**
Br = Brown **W = White**
Gd = Gold **Y = Yellow**
G = Green **F = Fluorescent**
O = Orange **T = Translucent**

❶ Barricades / Panels **❻ Diamond Signs**
❷ Cones **❼ Rectangular Signs**
❸ Drums
❹ Signs
❺ Tubular Markers

✪ = Provisional Approval

		TYPE	COLOR	H.A.	P.S.	R.U.	REF. NO.
AMEDM	American Decal & Mfg Co.	I	W	280	180		----------
	4100 W. Fullerton Ave.	I	O	284	184		----------
	Chicago, IL 60639						
AMTSM	American Traffic Safety Mat'ls						RS-8
	P.O. Box 1449	I	R		151		99-210
	Orange Park, FL 32067-1449	I	W		152		99-210
		I	B		153		99-210
		I	G		154		99-210
		I	Y		155		99-210
		I	O		156		99-210
		I	Br		157		99-210
AVERY	Avery Dennison Corp.	I	Gd	T-1203	T-1103		----------
	Highway Safety Division	I	B	T-1205	T-1105		----------
	6565 West Howard Street	I	R	T-1208	T-1108		RS-6
	Niles, IL 60714	I	W	T-1600	T-1500		----------
		I	Y	T-1601	T-1501		----------
		I	O	T-1604	T-1504		----------
		I	B	T-1605	T-1505		----------
		I	G	T-1607	T-1507		----------
		II	W	T-2600	T-2500		92-117/20
		II	Y	T-2601	T-2501		92-122/23
		II	B	T-2605	T-2505		92-126/27
		II	G		T-2507		92-128

Avery Dennison Corporation, continued next page.

SECTION 1103.02(c) : Traffic Division
REFLECTIVE SHEETING

H A = Heat Activated **P S = Pressure Sensitive** **R S = Reboundable Sheeting**

R U = RESTRICTED USE

B = Blue **R = Red** ❶ **Barricades / Panels** ❻ **Diamond Signs**
Br = Brown **W = White** ❷ **Cones** ❼ **Rectangular Signs**
Gd = Gold **Y = Yellow** ❸ **Drums**
G = Green **F = Fluorescent** ❹ **Signs**
O = Orange **T = Translucent** ❺ **Tubular Markers**

✪ **= Provisional Approval**

		TYPE	COLOR	H.A.	P.S.	R.U.	REF. NO.
AVERY	Avery Dennison Corp.	III	W		T-6500		96-158A
	Highway Safety Division	III	Y		T-6501		96-158B
	6565 West Howard Street	III	G		T-6507		96-158C
	Niles, IL 60714	III	B		T-6505		96-158D
		III	R		T-6508		96-158E
		III	W/O		W-6200		96-158I
		III	O		T-6504		98-043
		III	F/O		W7514		96-158H
		IX	F/Y		T-7511		01-115
KIWA-	Kiwa Chem. Ind., Co.	I	W	2012	2013		----------
	Sakai Trading Co. NY	I	Y	2042	2043		----------
	317 Madison Avenue	I	O	2052	2053		----------
	New York, NY 10017	I	R	2062	2063		----------
		I	G	2072	2073		----------
		I	B	2082	2083		----------
		II	Y	12042	12043		----------
		II	R	12062	12063		----------
		II	G	12072	12073		----------
		II	B	12082	12083		----------
3M-03	Minnesota Mining & Mfg, Co	I	W/O		14-6R & L	❶	93-134
	Traffic Control Materials Division	I	Gd		580-54		90-090/91
	582-1-15, 3 M Center	I	Y		1481		93-133
	St. Paul, MN 55144	I	O	1284	1484	❶, ❹	90-089
		I	Y	2271	3271		----------
		I	R	2272	3272		----------
		I	B	2275	3275		----------
		I	G	2277	3277		----------

Minnesota Mining & Manufacturing, Co, continued next page.

SECTION 1103.02(c) : Traffic Division
REFLECTIVE SHEETING

H A = Heat Activated **P S = Pressure Sensitive** **R S = Rebroundable Sheeting**

R U = RESTRICTED USE

B = Blue **R = Red**
Br = Brown **W = White**
Gd = Gold **Y = Yellow**
G = Green **F = Fluorescent**
O = Orange **T = Translucent**

❶ Barricades / Panels **❻ Diamond Signs**
❷ Cones **❼ Rectangular Signs**
❸ Drums
❹ Signs
❺ Tubular Markers

✪ = Provisional Approval

3M-03 Minnesota Mining & Mfg, Co
Traffic Control Materials Division
582-1-15, 3 M Center
St. Paul, MN 55144

TYPE	COLOR	H.A.	P.S.	R.U.	REF. NO.
I	Br	2279	3279		----------
I	W	2290	3290		----------
I	W/O		CW44R & L	❶	----------
I	W		CW80		----------
I	Y		CW81		----------
I	O		CW 84	❸, ❺	93-131
III	W/O		386R & L	❶, ❹	93-135
III	W		3820	❶, ❹	----------
III	Y		3821	❶, ❹	93-136
III	O		3824	❶, ❹	----------
III	W		3860		----------
III	Y		3861		----------
III	R		3862		----------
III	O		3864		----------
III	B		3865		----------
III	G		3867		----------
III	BR		3869		----------
III	W	2870	3870		_____
III	Y	2871	3871		_____
III	R	2872	3872		_____
III	B	2875	3875		_____
III	G	2877	3877		_____
III	BR	2879	3879		_____
III	O	2884	3884		_____

Minnesota Mining & Manufacturing, Co, continued next page.

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SECTION 1103.02(c) : Traffic Division
REFLECTIVE SHEETING

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Br = Brown **W = White** ❷ **Cones** ❼ **Rectangular Signs**
Gd = Gold **Y = Yellow** ❸ **Drums**
G = Green **F = Fluorescent** ❹ **Signs**
O = Orange **T = Translucent** ❺ **Tubular Markers**

✪ **= Provisional Approval**

		TYPE	COLOR	H.A.	P.S.	R.U.	REF. NO.
3M-03	Minnesota Mining & Mfg, Co.	III	W/O	RS	316R&L	❶	_____
	Traffic Control Materials Division	III	W	RS	3810	❸, ❺	94-019
	582-1-15, 3 M Center	III	Y	RS	3811-I	❸, ❺	_____
	St. Paul, MN 55144	III	O	RS	3814	❸, ❺	94-018
		III	W	RS	3840	❷	_____
		VI	FO		RS24	✪	97-156
		VII	W		3910		_____
		VII	F/O		3914		_____
		VII	F/O		3924F	❻	91-311
		VII	F/O		3924G	❼	91-311
		VII	F/Y/G		3963		_____
		VII	W		3970		_____
		VII	Y		3971		_____
		VII	R		3972		_____
		VII	B		3975		_____
		VII	G		3977		93-413
		VII	O		3984G		93-138
		VII	WT		399OT	❶, ❹	98-070
		VII	W/O		DG6-OWL	❶, ❹	98-184A
		VII	W/O		DG6-OWR	❶, ❹	98-184B
		IX	F/Y		3981	✪	99-165
		IX	W		3990		_____
		IX	Y		3991		_____
		IX	R		3992		_____
		IX	B		3995		_____
		IX	G		3997		_____

SECTION 1103.02(c) : Traffic Division
REFLECTIVE SHEETING

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❶ Barricades / Panels **❻ Diamond Signs**
❷ Cones **❼ Rectangular Signs**
❸ Drums
❹ Signs
❺ Tubular Markers

✪ = Provisional Approval

		TYPE	COLOR	H.A.	P.S.	R.U.	REF. NO.
NIPCA	Nippon Carbide Ind. (USA) Inc. 3136 E. Victoria St. Rancho Dominquez, CA 90221	I	W	7112	8112		RS-3
		I	Y	7104	8104		
		I	R	7105	8105		
		I	B	7106	8106		
		I	O	7107	8107		
		I	G	7108	8108		
		II	W	17012	18012		RS-3
		II	Y	17004	18004		
		II	B	17006	18006		89-146
		II	G	17008	18008		
		II	R	17035	18035		89-146
		II	O	17037	18037		89-148
		III	Y		N504		RS-3
		III	B		N506		
		III	O		N507		
		III	G		N508		
		III	W		N512		
		III	Y		N804		
		III	B		N806		
		III	O		N807		
		III	G		N808		
		III	W		N812		
		III	W/O		N517	❶	

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SECTION 1103.02(c) : Traffic Division
REFLECTIVE SHEETING

H A = Heat Activated **P S = Pressure Sensitive** **R S = Reboundable Sheeting**

R U = RESTRICTED USE

B = Blue **R = Red** ❶ **Barricades / Panels** ❻ **Diamond Signs**
Br = Brown **W = White** ❷ **Cones** ❼ **Rectangular Signs**
Gd = Gold **Y = Yellow** ❸ **Drums**
G = Green **F = Fluorescent** ❹ **Signs**
O = Orange **T = Translucent** ❺ **Tubular Markers**

✪ **= Provisional Approval**

			TYPE	COLOR	H.A.	P.S.	R.U.	REF. NO.
REFLE	Reflexite North America	**(1" sq.)**	I **RS**	W				----------
	315 South St.	**E30-1539**	I **RS**	W			❷, ❺	----------
	New Britain, CT 06051	**(1" sq.)**	I **RS**	O			✪	90-350
		Channelizer	III **RS**	W/O			✪	98-003
			V **RS**	W		AR1000		96-111
			V **RS**	Y		AR1000		96-111
		(1" sq.)	VI	O				----------
		(1" sq.)	VI	Y				----------
		Marathon	VI	W				00-184
		Marathon	VI	F/O				00-185
		Super Brite	VI	F/O			✪	97-038
		Prestripe Sheeting	VI	W			❶	88-308
		Prestripe Sheeting	VI	O			❶	88-308
		(2" sq.)	VI	W				----------
		(2" sq.)	VI	O				----------

SECTION 1103.04 : Traffic Division
APPROVED SIGN MANUFACTURERS

All listed manufacturers are approved to make signs by use of prepared faces.
C = Approved to make cut out characters. S = Approved to silk screen.
See Note 1, last page in this section

A&HEQ	A & H Equipment Co. 1124 McLaughlin Run Road, P. O. Box 337 Bridgeville, PA 15017	PDT 1450-92; C & S
ASSPR	Associated Products Co. 2 East Road, Mechanicsburg, PA 17050	PDT 820-78; C Black on Orange Construction Series Only
ATLAS	Atlas Flasher & Supply Co. 2949 Felton Road, Norristown, PA 19401	PDT 1100-84
BICMT	Bi-Co Machine & Tool, Inc. 98 Bi Co Lane, Philipsburg, PA 16866	PDT 1800-02 Street Name Signs Only, (D3-1)
BLAIR	Blair Excavating Co., Inc. R. R.# 5, Box 308A, Tyrone, PA 16686	PDT 1400-91
BONE-	Bone Safety Signs, Inc. 1761 McCoba Drive, Suite A, Smyrna, GA 30080	PDT 1320-89; S
BRADC	Bradco Supply Co. RD #1, P. O. Box 143-1, Towanda, PA 18848	PDT 270-68; C & S
BUNZL	Bunzl Extrusion, Inc., Tacoma Division 3110 70th Ave., East, Tacoma WA 98424	PDT 1780-02 Yield to Ped. Signs & Barricade Rails only
CAMSC	Camsco Services, Inc. 255 Pennbriar Drive, Erie, PA 16509	PDT 1750-01, C
CARST	Carsonite Int'l Corp. 1000 Bob Gifford Blvd., Hampton, SC 29924	PDT 900-79; S Speed Check marker signs only
CENTS	Central Sign Systems 5215 Simpson Ferry Road, Mechanicsburg, PA 17050	PDT 1560-95; C & S
CIRCL	Circle R Safety Serv. Co., Inc. 1624 Middle Road, Ext., Gibsonia, PA 15044	PDT 1550-95; C & S
CLARS	Clarion Signs 255 Whisner Road, Shippenville, PA 16254	PDT 1690-99

Section 1103.04 : Traffic Division
APPROVED SIGN MANUFACTURERS (Continued)

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COMSG	Compusign & Graphic 1295 Baltimore Pike, Toughkenamon, PA 19374-0271	PDT 1820-03, C.& S
CORRE	Correctional Industries Sign Shop 801 Butler Pike, Mercer PA 16137	PDT 1730-01; C & S
COSDS	C.O. Signs & Designs, Inc. 10125 Route 56, Box B, Homer City, PA 15748	PDT 1770-02; C & S
CUMMG	Cummings, Incorporated 543 Expressway Park Dr., Nashville, TN 37210	PDT 1500-94; C
CUSTP	Custom Products Corporation 1120 Flowood Drive, Flowood, MS 39232	PDT 1709-02
DECKR	Decker Supply Co. Inc. 1115 Oneill Ave., Madison, Wi 53704	PDT 1010-81; C & S
DICKE	Dicke Tool Company 1201 Warren Ave., Downers Grove, IL 60515	PDT 750-76; S
DONLN	Donlyn Co/Osborne Associates P. O. Box 912, Logan, OH 43138	PDT 1760-01; C & S
EASTM	Eastern Metal of Elmira, Inc. 1430 Sullivan Street, Elmira, NY 14901	PDT 020-68 & 021-75; C & S
GARDS	Garden State Highway Prod., Inc. 1740 East Oak Road, Vineland, NJ 08361	PDT 1300-88 C & S
GARMN	Garman Sign & Decal Co. 728 East Haverford Road, Bryn Mawr, PA 19010	PDT 470-71; C & S
GEMML	Gemmill, D.E., Inc. 10174 Chapel Church Road, Red Lion, PA 17356	PDT 1720-01; C
GEOSS	Georges Sign Shop 557 Lafayette Drive, Clarion, PA 15025	PDT 030-68; C & S

Section 1103.04 : Traffic Division
APPROVED SIGN MANUFACTURERS (Continued)

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GRIFN	Griffin Sign Co. 464 North Randolph Ave., Cinnaminson, NJ 08077	PDT 680-75
GRIMC	Grimco, Incorporated 1585 Fencorp Drive, Fenton, MO 63026	PDT 290-69; S
HALLS	Hall Signs, Inc. 4495 W. Vernel Pike, Bloomington, IN 47404	PDT 560-73
HAZRD	Hazard Controls, Inc. Woodland & Yale Ave., Cherry Hill, NJ 08034	PDT 100S, 101S, 102S, & 103-68S (Includes vinyl covered nylon)
HIGHS	Highway Signs, Inc., Div of Elderlee, Inc. 729 Cross Road, Oaks Corners, NY 14518	PDT 610-74; S
IMAGE	Image Signs Inc. 1720 B. Margaret Ave., Altoona, PA 16601	PDT 1460-93
IMPRS	Impact Recovery Systems 246 West Josephine St., San Antonio, TX 78212	PDT 1810-03, S
INSHS	Interstate Highway Sign Co. Div LFE Corp. 7415 Lindsey Road, Little Rock, AR 72206	PDT 670-75; C & S
JLSCR	J. L. Screen Printing Rt #31, P. O. Box 324, Ruffs Dale, PA 15697	PDT 1140-84; C & S
KORMN	Korman Signs, Inc. 3029 Lincoln Ave., Richmond, VA 23228	PDT 1050-82; S
KRIEG	Krieg, Daniel B. 4200 Paxton Street, Harrisburg, Pa 17111	PDT 1470-93;C
LEVC-	Levco P. O. Box 39, Quentin, PA 17083	PDT 990-81; C
LYLE-	Lyle Signs, Inc. 6234 Bury Drive, Eden Prairie, MN 55346	PDT 260-68; C & S

Section 1103.04 : Traffic Division
APPROVED SIGN MANUFACTURERS (Continued)

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3M-03	3M Company 3 M Center, St. Paul, MN 55101	PDT 110-68; C & S
MARKE	Marketing Displays, Inc. 38271 West 12 Mile Road Farmington, MN 48331	PDT 1160-85; S With approved flexible C-II material & nonreflective flexible material
MILLS	Miller Municipal Supply 1117 Snyder Road, West Lawn, PA 19609	PDT 1180-85; S
MITSU	Mitsubishi International Corp. 520 Madison Avenue, New York, NY 10022	PDT 780-77; S
MUNSS	Municipal Signs & Sales 1219 McCloskey Road, Columbiana, OH 44408	PDT 1130-84; C & S Except Stop signs
NATSC	National Sign Co., Inc. P. O. Box 25, Ottawa, KS 66067	PDT 940-80; C & S
NEWMA	Newman Signs, Inc. Business Loop West, P. O. Box 1726 Jamestown, ND 58401	PDT 930-80; C & S
NISSL	Nissley, John I., Co. 544 West Mill Ave., P. O. Box 633 Lancaster, PA 17608	PDT 230-68; S & C
PALMR	Palmer Prod. Co. 1201 Monroeville Ave., Turtle Creek, PA 15145	PDT 500-72; S
PADER	Penn Nursery Sign Shop DCNR Bureau of Forestry 137 Penn Nursery Road, Spring Mills, PA 16875	PDT 1150-85; C & S
PIBH-	PA Industries for the Blind & Handicapped 1007 North Front St., Harrisburg, PA 17110	PDT 1300-89; C & S

Section 1103.04 : Traffic Division
APPROVED SIGN MANUFACTURERS (Continued)

All listed manufacturers are approved to make signs by use of prepared faces.
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See Note 1, last page in this section

POWEL	Powell Engineering Contractors, Inc. P. O. Box 4100, Reading, PA 19606	PDT 1420-92
PROTE	Protection Services, Inc. 635 Lucknow Lane, Harrisburg, PA 17110	PDT 060-68; C & S
QUAKR	Quaker Valley Council of Governments 620 California Avenue, Pittsburgh, PA 15202	PDT 1270-87
REIDL	Reidler Decal Corp. 17 N. Front Street, St. Clair, PA 17970	PDT 340-69 & 349-75; S
RELSS	Reliable Sign & Striping Inc. 301 Chestnut Street, Slatington, PA 18080	PDT 1650-97; C & S
ROCAL	Rocal, Inc. 9 South Main St., P. O. Box 206B, Frankfort, OH 45628	PDT 1030-82; C & S
SAFSG	Safety Sign Co. P. O. Box 360500, Cleveland, OH 44136	PDT 1060-82
SAFTS	Sign Plus of Kanona 7964 Rt. 53, P.O. Box 788, Bath, NY 14810	PDT 1380-91; C, S & Boarders
SELEC	Selecto-Flash Safety, Inc. 14 Village Park Road, Cedar Grove, NJ 07009	PDT 1660-97; C & S
SHANN	Shannon-Baum Signs, Inc. 105 Competitive Goals Dr., Eldersburg, MD 21784	PDT 950-80; C & S
SI&BL	Signs & Blanks, Inc. P. O. Box 2234, Akron, OH 44309-2234	PDT 1520-95, C & S
S&SSS	S & S Signs and Safety Equipment, Inc. P. O. Box 102, Big Flats, NY 14814	PDT 1530-95,C & S Flexible material, C-II & non-reflective
SIGUC	Sign Up Corp. P. O. Box 14624, Portland, OR 97293-0624	PDT 1370-91; S Flexible roll up type

Section 1103.04 : Traffic Division
APPROVED SIGN MANUFACTURERS (Continued)

All listed manufacturers are approved to make signs by use of prepared faces.
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See Note 1, last page in this section

TLEFT	The Left Idea R.D. #3, Wood Street, Polk, PA 16342-9705	PDT 1610-96; C
TRFXD	Traffix Devices, Inc. 220 Calle Pintoresco, San Clemente, CA 92672	PDT 1390-91, S
TRFCN	Trafcon Industries, Inc. 81 Texaco Road, Mechanicsburg, PA 1705	PDT 1290-88; S
TRFSS	Traffic & Safety Signs, Inc. 234 Birch Street, Kennett Square, PA 19348	PDT 1230-86; C & S
TRSSR	Traffic Services Sales & Rentals, Inc. 1128 North Graham St., Allentown, PA 18109	PDT 850-79; C & S
T&W-T	T & W Traffic Control 1505 Rohrerstown Road, Lancaster, PA 17601	PDT 1280-88; C & S
URNA1	United Rentals Highway Technologies, Inc. 4091 Saltsburg Road, Suite M, Murrysville, PA 15668	PDT 1040-82; C & S
URNA5	United Rentals Highway Technologies, Inc. 125 Taylor Drive, Depew, NY 14043	PDT 1360-91, C & S
URNA6	United Rentals Highway Technologies, Inc. 3170 Unionville Pike, Hatfield, PA 19440-1823	PDT 1440-92; C & S
URNA7	United Rentals Highway Technologies, Inc. 404 Cedar Avenue, Richmond, NJ 08350	PDT 1480-94, C
URNA8	United Rentals Highway Technologies, Inc. 880 North Adison Road, Villa Park, IL 60181-7050	PDT 1630-96; C
USACE	US Army Corps of Engineers Loyalhanna Lake Sign Shop 440 Loyalhanna Dam Road, Saltsburg, PA 15681	PDT 1490-94; C & S
USMUS	U. S. Municipal Supply, Inc. P. O. Box 574, Huntingdon, Pa 16652	PDT 210-68; C & S

Section 1103.04 : Traffic Division
APPROVED SIGN MANUFACTURERS (Continued)

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See Note 1, last page in this section

USSSC	U. S. Standard Sign Co. 11400 West Addison St., Franklin Park, IL 60131	PDT 770-76; C & S
VINGU	Vinyl Graphics Unlimited 9912 Route 322, Shippenville, PA 16254	PDT 1700-00; C
VULSS	Vulcan Signs & Stampings, Inc. 400 East Berry Ave., P. O. Box 850, Foley, AL 36536	PDT 570-73; C & S
WALSH	Walsh Equipment Co. Rt. 422 West, P. O. Box 430, Butler, PA 16003	PDT 460-70; C
WEIGL	Weigland, H. A., Inc. 1409 State Road, Phoenixville, PA 19460	PDT 740-76; C & S
WHELA	Whelan, J. S., Co., Inc. 13810 Route 30, North Huntingdon, PA 15642	PDT 400-70; C & S
WHSMC	Whitco Sign & Manufacturing Corp. 170 Tapley Street, Springfield, MA 01104	PDT 640-75; C & S
WILLG	Williams Graphics, Inc. 2200 Spring Garden Ave.,Pittsburgh, PA 15212	PDT 1410-91; C & S
WKZSS	Work Zone Safety Specialists, Inc. 1764 Columbia Turnpike, Castleton, NY 12033	PDT 1740-01; C
WORKA	Work Area Protection Corp. 2500 Production Drive, P. O. Box 4087 St. Charles, IL 60174	PDT 920-79; C & S Construction Series Only

NOTE 1: "Signs shall be manufactured from aluminum sign blanks in accordance with **Publication 236** & appropriate specs., unless otherwise indicated. Other Department approved substrates include, but are not limited to plywood, fiberglass, steel, & plastic. Plywood substrate shall be indicated by a (P). Fiberglass substrate shall be indicated by a (F).

NOTE 2: All W-20 & W-21 (Nonreflective Temporary Signs) shall have durably fixed "When this sign is used during hours of darkness, PADOT regulations require it shall have an attached or independently mounted light source designed to direct uniform illumination over the entire face of the sign."

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SECTION 1103.07(b) : Traffic Division
BREAKAWAY COUPLINGS
The Steel Products Procurement Act Applies

TRASA	Transpo-Safety, Inc. Affiliate of Hydro-Cell, Ltd 20 Jones St. New Rochelle, NY 10801	Type I

SECTION 1103.08(a) : Traffic Division
STEEL CHANNEL BAR POSTS (Type B)
The Steel Products Procurement Act Applies

	Company Name	Post Size	Posts per 7' path	Breakaway System	REF. NO.
CHIHS	Chicago Heights Steel. 211 E. Main Street Chicago Heights, IL 60411	4 lb/ft (5.94kg/m) or less 4 b/ft (5.94kg/m) or less 4 lb/ft (5.94kg/m) or less 12 lb/ft (1.66kg/m)	3 2 3	Bracer Bar Sys. Erect Ease Sys. Universal Spacer Multipal Sign Mnting Stringers	SP-4
FRANK	Franklin Industries P. O. Box 671 Franklin, PA 16323	4 lb/ft (5.94kg/m) or less 4 lb/ft (5.94kg/m) or less 4 lb/ft (5.94kg/m) or less 1.12 lb/ft (1.66kg/m)	2 3 3	EZE-Erect Sys. ◆ Base Bolted Sys. Universal Spacer Multipal Sign Mnting Stringers	SP-3
MARSC	Marion Steel Co. 912 Cheney Ave. Marion, OH 43302	3 lb/ft (4.46kg/m) or less 4 lb/ft (5.94kg/m) or less 4 lb/ft (5.94kg/m) or less 1.12 lb/ft (1.66kg/m)	1 3 3	Minute Man Sys. Lap Splice Sys. Universal Spacer Multipal Sign Mnting Stringers	92-153 92-153 92-153

◆ Must match same configuration as tested & approved by FHWA & as shown in Pub. 111.

SECTION 1103.08(b) : Traffic Division
STEEL SQUARE POSTS

Signing Std. 77-02B applies
The Steel Products Procurement Act Applies

					REF. NO.
SSQTP	S-Square Tube Products 5495 East 69 th Avenue Commerce City, CO 80022	Sign Posts	12 ga.	1.5" thru 2.5"	00-096
STLSP	St. Louis Steel Products 191 Rock Industrial Park Dr. St. Louis, MO 63044	Sign Posts Sign Posts	12 ga. 14 ga.	1.75", 2", 2.25" 1.75"	99-153 99-153
WESTH	Western Highway Prod. 10650 Fern Ave. Stanton, CA 90680	Sign Posts Anchor Post Sleeve ✶	14 ga., 60 ksi 12 ga., 50 ksi 12 ga., 50 ksi	1.75", 2", 2.25: 2", 2.25", 2.5" 2.25", 2.5"	97-054 97-054 97-054
		✶ **Anchor sleeve is only required for concrete installation.**			
UNIST	Unistrut Building Systems GTE Products Corp. 35660 Clinton St. Wayne, MI 48184	Sign Posts	12 ga., 33 ksi 10 ga., 33 ksi 14 ga., 60 ksi	1.5", 1.75", 2", 2.25"♦ 2.5"♦ 1.5", 1.75", 2"	94-136A
		36"Anchor Post	12 ga., 33 ksi 3/16", 33 ksi 12 ga., 60 ksi	1.75", 2", 2.25", 2.5"♦ 3"♦ 1.75", 2", 2.25"	94-136B
		18" Sleeve	12 ga., 33 ksi 3/16", 33 ksi 12 ga., 60 ksi.	2", 2.25", 2.5" 3"♦ 2", 2.25", 2.5"	
		♦ **Use 18" Anchor Stiffener Sleeves with each Department installed post system. No Dual Post Approval.**			

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SECTION 1103.09 : Traffic Division
TREATED WOOD POSTS Types C & E

		REF. NO.
MIDWW	Midwest Wood Treating, Inc. Div. of Midwest Wholesalers, Inc. 4832 Plank Road, P. O. Box 610 Norwalk, OH 44857	99-136
TAYLR	Taylor-Ramsey Corp. P. O. Box 11888 Lynchburg, VA 24506	85-090

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SECTION 1103.14(a)2
GLASS BEADS FOR TRAFFIC PAINT

			REF. NO.
ACARG	ACA Reflectorized Glass Prod. 3213 Middle Road Dunkirk, NY 14048	Type A	96-210
CATAP	Cataphote, Div Ferro Corp., Inc. 1110 Underwood Dr. P. O. Box 2369 Jackson MS 39225-2369	Type A	90-357
FLEX1	Flex-O-Lite Div. GSI., Inc. 4907 55th Ave., West Progress Park Muscatine, IA 52761	Type A	95-146
FLEX2	Paris, TX		
HELLR	Heller, Tod, Inc. Smith Street P. O. Box 95 Northampton, PA 18067	Type A & D	96-179
POTT0	Potters Ind., Inc. 1200 West Swedesford Rd. Berwyn PA, 19312-1077	Type A Type C, Visibeads	90-079 94-084
POTT1	Cleveland, OH		
POTT2	Potsdam, NY		
POTT3	Apex, NC		

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SECTION 1104.02
TRAFFIC SIGNAL SUPPORTS

Pole Fabricators:		❶ Steel	❷ Aluminum
HAPCO	Hapco/American Flag 26252 Hillman Highway Abington, VA 24210		❷
UNIMC	Union Metal Corp. 1432 Maple Avenue, N.E. Canton, OH 44705	❶	❷
VALM1	Valmont Industries, Inc. P.O. Box 358 Valley, NE 68064	❶	❷
VALM2	Valmont Industries, Inc. 58027 Charlotte Avenue Elkhart, IN 46517	❶	❷
VALUE	Value Structures, Inc. 700 Second Street Ellwood City, PA 16117	❶	

SECTION 1104.02(d)
TRAFFIC SIGNAL, ANCHOR BOLTS: ASTM A-449

			REF. NO.
HERBC	Hercules Bolt Company 2300 Clifton Ave., Suite 60 Nashville, TN 37209	A449 Galvanized Anchor Bolts	98-198
BBC-F	BBC Fastners, Inc. 4210 Shirley Lane Alsip, IL 60803	A-449, Bolts, Hex nuts & Washers	89-238
DECKM	Decker Mfg'er Corp. 703 North Clark Street Albion, MI 49224	A-563, Gr. C Hex nut	89-094
GAFBC	Gaffney Bolt Company, Inc. 6100 Material Avenue Rockford, IL 6111	A-449 Anchor Bolts	03-008
GPFAS	G. P. Fastner & Ind. Supply, Inc. 1450 Main Street/ P. O. Box 309 Shoemakersville, PA 19555	Rod Assemblies	89-113
FOUND	Foundation Systems & Anchors 2300 Allen Ave., S. E. Canton, OH 44707	A-449 Galvanized Anchor Bolts	90-385C
HAYDN	Haydon Bolts, Inc. Adams Ave. & Unity St. Philadelphia, PA 19124	A-449, Galvanized Anchor Bolts	90-039
IMPER	Imperial Bolt & Supply Co., Inc. 157 Helen Street South Plainfield, NJ 07080	A-449, Galvanized Anchor Bolts	88-009
JHBTS	J. H. Botts, Inc. 253 East Bruce Street Joliet, IL 60432	A-449, Galvanized Anchor Bolts	01-059
NASHB	Nashville Bolt, LLC 499 Cave Road Nashville, TN 37210	A-449, Galvanized Anchor Bolts	92-192C
STCBS	Steel City Bolt & Screw Inc. 230 West Valley Ave., P.O.Box 1747 Birmingham, AL 35201	A-449, Galvanized Anchor Bolts	90-037
SOEBS	Southeastern Bolt & Screw, Inc. 1037 16th Ave. West Birmingham, AL 35202	A-449, Galvanized Anchor Bolts	91-058
UNIQU	Unique Industries 13488 HWY 25 N., P.O.Box 683 Calera, AL 35040	A-449, Bolts	90-145

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SECTION 1104.03 : Traffic Division
CONTROLLER ASSEMBLY

(a)1 Electromechanical pretimed
(a)2 Solid State Pretimed
(a)3 Solid State Actuated
(a)4 Solid State Actuated with Volume Density
(a)5 Solid State Flasher, single or dual circuit

ADVAN	Advanced Traffic Systems 352 Godshall Dr. Harleysville, PA 19438	(a)1, (a)2, (a)3, (a)4, (a)5
AUTSC	Autosensor Controls 18605 South Mesa Dr. Villa Park, CA 92667	(a)5
EAGLS	Eagle Signal Controls 8004 Cameron Rd. Austin, TX 78753	(a)1, (a)2, (a)3, (a)4, (a)5
EBERL	Eberle Design Inc. 3819 E. LaSalle St. Phoenix, AZ 85040	(a)5
ECON0	Econolite Control Prod. 3360 E. Lapalma Rd. Anaheim, CA 92806	(a)1, (a)2, (a)3, (a)4, (a)5
ELECT	Electrotechnics Corp. Box 9308 Shreveport, LA 71139-9308	(a)5
ENGRM	Engineering Measurement 600 Diagonal Highway Longmont, CO 80501	(a)3

Section 1104.03 : Traffic Division
CONTROLLER ASSEMBLY (continued)

(a)1 Electromechanical pretimed
(a)2 Solid State Pretimed
(a)3 Solid State Actuated
(a)4 Solid State Actuated with Volume Density
(a)5 Solid State Flasher, single or dual circuit

GAMMA	Gammatronix, Inc. 6279 Shier Rings Rd. Dublin, OH 43017	(a)2, (a)3, (a)4, (a)5
GENHP	General Highway Prod. P. O. Box 596 Broomall, PA 19008	(a)1, (a)2, (a)3, (a)4, (a)5
GARDH	Gardner, H., Industries 6375 East Tanque Verde, Suite 170 Tuscon, AZ 85715	(a)5
INDCC	Indicator Controls Corp. 3000 E. Las Hermanes Street Rancho Dominguez, CA 90221	(a)5
KENTR	Kentron Inc. 16840 Clay Road, Suite 104 Houston, TX 77084	(a)1, (a)2, (a)3, (a)4, (a)5
LAB-E	L. A. B. Electrical Sales 100 Wells Ave. Congers, NY 10920	(a)3
LFEAS	LFE Corp./Automatic Signal 55 Green St. Clinton, MA 01510	(a)2, (a)3, (a)5
MINNM	Minnesota Microtronics P. O. Box 235 Buffalo, MN 55313	(a)2, (a)3

Section 1104.03 : Traffic Division
CONTROLLER ASSEMBLY (continued)

(a)1 Electromechanical pretimed
(a)2 Solid State Pretimed
(a)3 Solid State Actuated
(a)4 Solid State Actuated with Volume Density
(a)5 Solid State Flasher, single or dual circuit

MULTS	Multisonics Inc. Div of Display Solutions 6301 Best Friend Rd. Norcross, GA 30071	(a)3
NAZTC	Naztec Inc. 816 Park Two Dr. Sugar Land, TX 77478	(a)3
OPT22	Opto 22 43044 Business Park Drive Temecula, CA 92590-3614	(a)5
PDC-B	P D C, Bldg 25 6398 Dougherty Rd. Dublin, CA 94568	(a)5
PATH-	Path Master Inc. 960 Midway Drive Twinsburg, OH 44087	(a)1, (a)2, (a)3, (a)4, (a)5
SAFTR	Safetran Traffic Systems, Inc. 1485 Garden of the gods Road Colorado Springs, CO 80933-7009	(a)2, (a)3, (a)5
SIGNS	Signal Service Inc. 406 Spackman Lane Exton, PA 19341	(a)1, (a)2, (a)3, (a)4, (a)5
SOLSD	Solid State Devices 1257 West Geneva Dr. Tempe, AZ 85282	(a)5

Section 1104.03 : Traffic Division
CONTROLLER ASSEMBLY (continued)

(a)1 Electromechanical pretimed
(a)2 Solid State Pretimed
(a)3 Solid State Actuated
(a)4 Solid State Actuated with Volume Density
(a)5 Solid State Flasher, single or dual circuit

SONEX	Sonex Corp. 26 Olney Avenue Cherry Hill, NJ 08003	(a)3
TRFCT	Traffic Control Technology P.O. Box 3700 Syracuse, NY 13220	(a)1, (a)2, (a)3, (a)4, (a)5 (2, 2-4, 2-8 phase)
TRFPD	Traffic Products Inc. 397 Lancaster Ave. Malvern, PA 19355	(a)1, (a)2, (a)3, (a)4, (a)5
TRFSE	Traffic Sensor Corp. 302 North Sheridan Street Corona, CA 91720	(a)5
TRFXD	Traffix Devices, Inc. 220 Calle Pintoresco San Clemente, CA 92672	(a)3
TRFTC	Traftech P. O. Box 23686 Tempe, AZ 85285-3686	(a)5
TRASY	Transyt Corp. 4920 Woodlane Circle Tallahassee, FL 32303	(a)2, (a)3
DISPL	Display Solutions, Inc. 6301 Best Friend Rd. Norcross, GA 30071	(a)5

Section 1104.03(k) : Traffic Division
TIME CLOCK, SOLID STATE

ADVAN	Advanced Traffic Systems	352 Godshall Drive, Harleysville, PA 19438
DAYTM	Dayton Electric Mfg. Co.	5959 W. Howard St., Niles, IL 60714
DISPL	Display Solutions Inc.	6301 Best Friend Rd., Norcross, GA 30071
EBERL	Eberle Design Inc.	3819 East Lasalle, Phoenix, AZ 85040
ELECT	Electrotechnics Corporation	P.O. Box 9308, Shreveport, LA 71139-9308
EZCNT	E Z Controls Inc.	9330 Jersey Blvd., Rancho Cucamonoa, CA 91730
GENHP	General Highway Products	P. O. Box 596, Broomall, PA 19008
KENTR	Kentron Inc.	16840 Clay Road, Suite 104, Houston, TX 77084
PARAG	Paragon Electric Company	606 Parkway Blvd., Two Rivers, WI 54241
PATH-	Path Master Inc.	960 Midway Drive, Twinsburg, OH 44087
RTC-M	R T C Mfg. Inc.	P. O. Box 150189, Arlington, TX 76015
SIGNS	Signal Service Inc.	406 Spackman Lane, Exton, PA 19008
SOLDY	Solidyne Corp.	4215 Kirchoff Road, Rolling Meadows, IL 60008
TORK-	Tork, Inc.	1 Grove St., Mt. Vernon, NY 10550
TOTAL	Total Controls Co.	8077 Crockett Dr., Clay, NY 13041
TRFCT	Traffic Control Technology	P.O. Box 3700, Syracuse, NY 13220
TRFPD	Traffic Products Inc.	397 Lancaster Ave., Malvern, PA 19355
TRASY	Transyt Corp.	4920 Woodlane Circle, Tallahassee, FL 32303

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Section 1104.04: Traffic Division

04(a) Time Based Coordinator Unit 04(c)1 Coordination Unit, Electromechanical
04(c)2 Coordination Unit, Solid State

ADVAN	Advanced Traffic Systems	352 Godshall Drive, Harleysville, PA 19438
AUTSG	Automated Signal	55 Green St., Clinton, MA 01510
DISPL	Display Solutions Inc.	6301 Best Friend Rd., Norcross, GA 30071
EAGLS	Eagle Sign Controls	8004 Cameron Road, Austin, TX 787531
ECON0	Econolite Control Products	3360 E. Lapalma Rd., Anaheim, CA 92806
ELECT	Electrotechnics Corporation	P.O. Box 9308, Shreveport, LA 71139-9308
GAMMA	Gammatronix, Inc.	6279 Shier Rings Rd. Dublin, OH 43017
GENHP	General Highway Products	P. O. Box 596 Broomall, PA 19008
KENTR	Kentron Inc.	16840 Clay Road, Suite 104, Houston, TX 77084
3M-03	3M, Inc.	Safety & Security Systems Div.,. St. Paul MI 55144-1000
PATH-	Path Master Inc.	960 Midway Drive, Twinsburg, OH 44087
SAFTR	Safetran Traffic Systems	1485 Garden of the Gods Rd., Colorado Springs, CO 80933
SETCT	Setcon Technologies Inc.	17371 N. E. 67th Court, Redmond, WA 98052
SIGNS	Signal Service Inc.	406 Spackman Lane, Exton, PA 19008
SONEX	Sonex Corp.	931-939 E. Lycoming St., Philadelphia, PA 19124
TRFCT	Traffic Control Technology	P.O. Box 3700, Syracuse, NY 13220
TRFPD	Traffic Products Inc.	397 Lancaster Ave., Malvern, PA 19355
TRASY	Transyt Corporation	4920 Woodlane Circle, Tallahassee, FL 32303

Section 1104.04(b)1b : Traffic Division
MASTER CONTROLLER ASSEMBLY, SOLID STATE, PRETIMED

ADVAN	Advanced Traffic Systems	352 Godshall Drive, Harleysville, PA 19438
EAGLS	Eagle Sign Controls	8004 Cameron Road, Austin, TX 78753
GENHP	General Highway Products	P. O. Box 596, Broomall, PA 19008
KENTR	Kentron Inc.	16840 Clay Road, Suite 104, Houston, TX 77084
LFEAS	LFE Corp./Automatic Signal	55 Green St., Clinton, MA 01510
PATH-	Path Master Inc.	960 Midway Drive, Twinsburg, OH 44087
SIGNS	Signal Service Inc.	406 Spackman Lane, Exton, PA 19008
TRASY	Transyt Corporation	4920 Woodlane Circle, Tallahassee, FL 32303
TRFCT	Traffic Control Technology	P.O. Box 3700, Syracuse, NY 13220
TRFPD	Traffic Products Inc.	397 Lancaster Ave., Malvern, PA 19355

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Section 1104.05(c) Traffic Division
Reinforced Plastic Mortar Junction Boxes

		MODEL	TYPE	REF. NO.
ARMOR	Armorcast Products Company 13230 Saticoy Street North Hollywood, CA 91605	A6001423A A6001946APCX24 A6001946APC-PA	JB-26 JB-27 JB-27	00-279 00-280 02-067
CDRSC	CDR Systems Corporation 146 South Atlantic Avenue Ormond Beach, FL 32176	SA13-1212-12 SA10-1324-24	JB-26 JB-27	02-086 02-086
NEWBA	Newbasis 2626 Kansas Ave. Riverside, CA 92507	PC 1212 PV1324/18 (+ 8" Ext.)	JB-26 JB-27	91-321 93-017
PENCP	Pencell Plastics, Inc. Route 537, Plumsted Ind. Park New Egypt, NJ 08533	PEM-1212PC-10 PEM-1224PC-10	JB-26 JB-27	00-269 00-270
QUAZT	Quazite 3621 Industrial Park Drive Lenoir City, TN 37771	Quazite PC1212BA12 Quazite PC1212CA46 Quazite PG1324BA18 Quazite PG1324HA46 Quazite PG1324EA08	JB 26 JB 26 JB 27 JB 27 JB 27	93-096 93-096 93-096 93-096 93-096
SYNTC	Synertech Moulded Products 332 South Michigan Ave., Suite 100 Chicago, IL 60604	Synertech Synertech	JB 26 JB 27	98-149 98-149

Section 1104.06 : Traffic Division
SIGNAL HEAD: VEHICULAR, PEDRESTIAN, OPTICALLY PROGRAMMED

❶ 06(a) Vehicle Signal Head ❷ 06(b) Optically Programed ❸ 06(c) Pedestrian Signal Head

DISPL Display Solutions, Inc. ❶, ❸
6301 Best Friend Rd.
Norcross, GA 30071

EAGLS Eagle Signal Controls ❶, ❸
8004 Cameron Rd.
Austin, TX 78753

ECON0 Econolite Control Prod. ❶, ❸
3360 E. Lapalma Rd.
Anaheim, CA 92806

ELETR Electro Fiber Optics Corp. ❶, ❸
56 Hudson St.
NorthBoro, MA 01532

GAMMA Gammatronix, Inc. ❶
6279 Shier Rings Rd.
Dublin, OH 43017

INDCC Indicator Controls Corp. ❸
3000 E. Las Hermanes St.
Rancho Dominguez,
CA 90221

JUDAL Judal Industries ❸
P. O. Box 445
Jericho, NY 11735

LFEAS LFE Corp./Automatic Signal ❶, ❸
55 Green St.
Clinton, MA 01510

3M-03 3 M Company ❶, ❷
Safety Systems Div
St. Paul MI 55144-1000

MCCAN McCain Traffic Supply ❶
2575 Pioneer Ave.
Vista, CA 92083

MIDWT Midwest Signal Co. ❶
P. O. Box 450
Commerce City,
CO 80037-0450

SAFTR Safetran Traffic Systems ❶
1485 Garden of the Gods Rd
Colorado Springs, CO 80933

TRFCT Traffic Control Technology ❶, ❸
P.O. Box 3700
Syracuse, NY 13220

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Section 1104.07(a)
LOOP DETECTOR SEALANT

			REF. NO.
CHEMQ	Chemque, Inc. 6107 Guion Road Indianaoplis, IN 46254	Q-Seal 296-06	96-237
CHMRX	ChemRex, Inc. / Sonneborn 889 Valley Park Drive Shakopee, MN 55379	Gold Label Loop Sealant	77-004
DURPT	Durant Paints, Inc. 112 Railroad Street Revere, MA 02151	Stat-A-Flex	95-275
DYNAT	Dynatron/Bondo Corp. 3700 Atlanta Industrial Parkway Atlanta, GA 30331-1098	P-606	----------
EUCLD	Euclid Chem. Co. 19218 Redwood Rd. Cleveland, OH 44110	Eculid 495-HP (Bituminous 2 component Concrete)	75-081
MAGNL	Magnolia Plastics, Inc. 5547 Peachtree Ind. Blvd. Chamblee, GA 30341	Magnoloop I	77-055
MEDW0	W. R. Meadows, Inc. 300 Industrial Drive P.O. Box 338 Hampshire, IL 60140-0338	Sealex	82-151
MEDW1	2100 Monroe St. York, PA 17404		

Section 1104.07(a)
LOOP DETECTOR SEALANT

			REF. NO.
3M-03	3M, Co. Traffic Control Devices Dept. 223-3N, 3M Center St. Paul, MN 55144	3M Detector Loop Sealent	85-136
RAIPR	RAI Products P.O. Box 240772 Charlotte, NC 28224	Pro-Seal 6006	94-261
RUSCE	Ruscoe Highway Prod. Rusco, W. J., Co. P. O. Box 3858 Akron, OH 44314	Loop Sealent 974	Ltr 8/10/92
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Dural 306M Dural 337 Dural Polyester	83-006 83-007 83-008

Section 1104.07(b)2 , 3 , 4 & 5
LOOP AMPLIFIERS

AUTSG Automated Signal
55 Green St.
Clinton, MA 01510

DECAT Decatur Electronics
715 Bright Street
Decatur, IL 62522

DETEC Detector Systems
9345 Melvin Avenue
North Witch, CA 91324

ECON0 Econolite Control Prod.
3360 E. Lapalma Rd.
Anaheim, CA 92806

GAMMA Gammatronix, Inc.
6279 Shier Rings Rd.
Dublin, OH 43017

INDCC Indicator Controls Corp
3000 E. Las Hermanes Street
Rancho Dominguez, CA 90221

3M-03 3 M Company
Safety and Security Systems Div.
St. Paul MI 55144-1000

MICRS Microsense
4800 Bethania Station Rd.
Winston Salem, NC 27105

TRACS Transp. Control Systems
1201 W. North B Street
Tampa, Fl 33606

SARAS Sarasota Automation Inc.
1500 N. Washington Blvd.
Sarasota, Fl 33577

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Section 1104.07(c)1, 2 & (d)1, 2 : Traffic Division

1104.07(c)1 MAGNETOMETER SENSOR ; 1104.07(c)2 & 3 AMPLIFIER

1104.07(d)1 MAGNETIC SENSOR ; 1104.07(d)2 & 3 AMPLIFIER

LFEAS	LFE Corp./Automatic Signal 55 Green St. Clinton, MA 01510	1104.07(c)1 & 2 1104.07(d)1 & 2
3M-04	3M-Systems 501 Edison Ave. Bronx, NYC, NY 10465	1104.07(d)1 & 2
TEECS	Teeco Safety P. O. Box 7784 Shreveport, LA 71107	1104.07(d)1 & 2
TRFCT	Traffic Control Technology P. O. Box 3700 Syracuse, NY 13220	1104.07(d)1 & 2
TRASS	Transsensor Systems 2215 Grand Avenue Santa Anna, CA 92705	1104.07(c)1 & 2

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Section 1104.07(e) : Traffic Division

PEDESTRIAN PUSH BUTTON

ECON0 Econolite Control Products
3360 E. Lapalma Rd.
Anaheim, CA 92806

FLEMA Flemington Aluminium & Brass
24 Junction Road
Flemington, NJ 08822

GAMMA Gammatronix, Inc.
6279 Shier Rings Rd.
Dublin, OH 43017

GENHP General Highway Prod., Inc.
500C Abbott Drive, P. O. Box 596
Broomall, PA 19008

GENTR General Traffic Equipment
218 Willow St.
Yonkers, NY 10701

KENTR Kentron Inc.
16840 Clay Road, Suite 104
Houston, TX 77084

LFEAS LFE Corp./Automatic Signal
55 Green St.
Clinton, MA 01510

PELC- Pelco Products, Inc.
320 S.W. 18th Street
Edmond, OK 73013

SIGCP Signal Control Products
94 Old Camplain Rd.
Somerville, NJ 08876

TEECS Teeco Safety
P. O. Box 7784
Shreveport, LA 71107

TEMPL Temple & Sons Electric
317 Bank Street, P.O. Box 2066
Decatur, AL 35602-2066

TRFCT Traffic Control Technology
P. O. Box 3700
Syracuse, NY 13220

Monday, April 26, 2004
Pennsylvania Department of Transportation
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SECTION 1105
FABRICATED STRUCTURAL STEEL
Steel Products Procurement Act applies

NOTE: Any manufacturer approved by the American Institute of Steel Construction and the Pennsylvania Department of Transportation will be qualified for Steel Fabrication as specified in this section. See Appendix "AISC and Department Register of Certified Structural Steel Fabricators at end of Bulletin 15.

SECTION 1105.02(a)
Producers of Structural Steel Shapes, Plates & Pipe

NOTE: The Department accepts material supplied from any Steel Mill as long as the material complies with the requirements of Publication 408, Section 106, “Control of Material”.

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SECTION 1105.02(c)
BOLTS, NUTS & WASHERS

(c)1 Bolts, ASTM A-307 / ASTM F-568 — **(c)2 Anchor Bolts, AASHTO M-270**
(c)1.a Nuts, ASTM A-563/A-563M — **(c)2.a Nuts, ASTM A-307**
(c)1.b Washers, ANSI B-18.22M — **(c)2.b Washers, ANSI B-18.22M**

Anchor Bolts, ASTM F-1554
(c)3 = All Grades, (c)3.1 = Grade 36, (c)3.2 = Grade 55, (c)3.3 = Grade 105
(c)3.a Nuts, ASTM A-563/A-563M
(c)3.b Washers, ASTM F-436/F-436M

For Anchoring Adhesives and Mechanical Anchors, See Miscellaneous Section, "Anchoring Devices".

			REF. NO.
BENNE	Bennett Bolt Works 12 Elbridge Street Jordan, NY 13080	(c)2, (c)2.a	85-135A-B
DECKR	Decker Mfg'er Corp. 703 North Clark Street Albion, MI 49224	(c)3(a)	89-094
DYSNC	Dyson Corporation 53 Freedom Road Painesville, OH 44077	(c)1.a (c)3(a)	00-211 00-210
FOST0	Foster, L. B. Co. P. O. Box 2806, Foster Plaza Pittsburgh, PA 15230	(c)2	----------
FOUND	Foundation System Anchors, Inc 2300 Allen Ave., S. E Canton, OH 44707	(c)2 (c)3	90-385A-B 03-128
GAFBC	Gaffney Bolt Company, Inc. 6100 Material Avenue Rockford, IL 61111	(c)1	99-025
GPFAS	G. P. Fastener & Ind. Supply, Inc. 1450 Main Street/ P. O. Box 309 Shoemakersville, PA 19555	(c)1, (c)1.a (c)2	88-146B 88-146C

Note: Several ASTM A-307 Bolt and Nut manufacturers are also listed in Section 1109 "GuideRail & Metal Median Barrier".

SECTION 1105.02(c) (continued)

BOLTS, NUTS & WASHERS

(c)1 Bolts, ASTM A-307 / ASTM F-568
(c)1.a Nuts, ASTM A-563/A-563M
(c)1.b Washers, ANSI B-18.22M

(c)2 Anchor Bolts, AASHTO M-270
(c)2.a Nuts, ASTM A-307
(c)2.b Washers, ANSI B-18.22M

Anchor Bolts, ASTM F-1554
(c)3 = All Grades, (c)3.1 = Grade 36, (c)3.2 = Grade 55, (c)3.3 = Grade 105
(c)3.a Nuts, ASTM A-563/A-563M
(c)3.b Washers, ASTM F-436/F-436M

For Anchoring Adhesives and Mechanical Anchors, See Miscellaneous Section, "Anchoring Devices".

			REF. NO.
HALL2	Hall Industries, Inc. 514 Mecklem Lane Ellwood City, PA 16117	(c)3.3	03-109
HERBC	Hercules Bolt Company 2300 Clifton Ave., Suite 60 Nashville, TN 37209	(c)2 (c)3.2 (c)3.3 (c)3.1	98-196 03-113 03-114 03-112
HAYDN	Haydon Bolts Inc. 1181 Unity St. Phildelphia, PA 19124-3196	(c)1 (c)2 (c)3 (c)3	90-047A 90-047B 96-152 03-117
JHBTS	J. H. Botts, Inc. 253 East Bruce Street Joliet, IL 60432	(c)3	01-001
MNP-C	MNP Corporation 44225 Utica Rd. Utica, MI 48318	(c)1	91-022B
NUCR0	Nucor Fastner 6730 Country Rd. 60 St Joe, IN 46785	(c)1, (c)1.a	90-197A&B
NASHB	Nashville Bolt, LLC 499 Cave Road Nashville, TN 37210	(c)2	94-204A 92-192

Note: Several ASTM A-307 Bolt and Nut manufacturers are also listed in Section 1109 "GuideRail & Metal Median Barrier".

SECTION 1105.02(c) (continued)

BOLTS, NUTS & WASHERS

(c)1 Bolts, ASTM A-307 / ASTM F-568 — **(c)2 Anchor Bolts, AASHTO M-270**
(c)1.a Nuts, ASTM A-563/A-563M — **(c)2.a Nuts, ASTM A-307**
(c)1.b Washers, ANSI B-18.22M — **(c)2.b Washers, ANSI B-18.22M**

Anchor Bolts, ASTM F-1554
(c)3 = All Grades, (c)3.1 = Grade 36, (c)3.2 = Grade 55, (c)3.3 = Grade 105
(c)3.a Nuts, ASTM A-563/A-563M
(c)3.b Washers, ASTM F-436/F-436M

For Anchoring Adhesives and Mechanical Anchors, See Miscellaneous Section, "Anchoring Devices".

			REF. NO.
PABOL	Pennsylvania Bolt Corp. P. O. Box 256, Manatawny Rd. Pine Forge, PA 19548-0256	(c)2 (c)2.b	87-299 91-115
PRSTA	Prestige Stamping Inc. 23513 Grosbeck Highway Warren, MI 48089	(c)3.b	99-157
S&SFA	S & S Fastners 2501-A Duss Avenue Ambridge, PA 15003	(c)2	93-295
SOEBS	Southeastern Bolt & Screw, Inc. 1037 16th Ave. West Birmingham, Al 35204	(c)1, (c)1.a	91-059
STCBS	Steel City Bolt & Screw L.L.C. 230 West Valley Ave. P. O. Box 1747 Birmingham, AL 35201	(c)3	03-129
STLSB	St. Louis Screw & Bolt Co. 6900 NO. Broadway St. Louis, MO 63147	(c)1	98-191
UNIQU	Unique Industries, Inc. P. O. Box 683 13488 HWY 25 North Calera, AL 35040	(c)2 (c)3.1, (c)3.2	90-260 03-150

Note: Several ASTM A-307 Bolt and Nut manufacturers are also listed in Section 1109 "GuideRail & Metal Median Barrier".

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SECTION 1105.02(d)
HIGH STRENGTH BOLTS: ASTM A-325
Steel Products Procurement Act applies

(d).3 High Strength Bolts, ASTM A-325 **A-490 Bolts = Use Only When Specified**
(d).4 Nuts, ,❶ Galvanized, ASTM A-563 **❷ Stainless Steel, ASTM A194**
(d).5 Washers, ASTM F-436

			REF. NO.
ALPHA	Alpha Stamping Co. 33375 Glendale Livonia, MI 48150	(d).5	92-293
BBC-F	BBC Fastners, Inc. 4210 Shirley Lane Alsip, IL 60803	A-490 (Type 3)	96-171
CHIFM	Chicago Fastener Manufacturing 10902 Walnut Lane Mokena, IL 60448	(d).3	97-193
DYSNC	Dyson Corporation 53 Freedom Road Painesville, OH 44077	(d).3 (d).4 ❶	00-208 00-209
GAFBC	Gaffney Bolt Company, Inc. 6100 Material Avenue Rockford, IL 61111	(d).3	99-026
GPFAS	G. P. Fastener & Ind. Supply, Inc. 1450 Main Street/ P. O. Box 309 Shoemakersville, PA 19555	(d).3	88-146A
GRAHM	Graham Stamping Co. 1700 Broadway Ave. Wheatland, PA 16161	(d).5	91-166
HAYDN	Haydon Bolts, Inc. Adams Ave. & Unity Street Philadelphia, PA 19124	(d).3	90-047C
LAKES	Lake Erie Screw Corporation 13001 Athens Avenue Cleveland, OH 44107	(d).3 A-490 (Type 1) A-490 (Type 3)	01-021 01-021 01-021

SECTION 1105.02(d)

HIGH STRENGTH BOLTS: ASTM A-325 (continued)

Steel Products Procurement Act applies

(d).3 High Strength Bolts, ASTM A-325 **A-490 Bolts = Use Only When Specified**
(d).4 Nuts, ,❶ Galvanized, ASTM A-563 **❷ Stainless Steel, ASTM A194**
(d).5 Washers, ASTM F-436

				REF. NO.
MNP-C	MNP Corporation 44225 Utica Rd. Utica, MI 48318	(d).3		91-022A
NUCR0	Nucor Fastner, Div Nucor Corp. 6730 Country Rd. 60 St. Joe, IN 46785	(d).3 (d).4	 ❶	89-021 90-198
PRSTA	Prestige Stamping Inc. 23513 Grosbeck Highway Warren, MI 48089	(d).5		99-157
ROCBC	Rockford Bolt & Steel Company 126 Mill Street Rockford, IL 61101	(d).3 A-490		03-054 03-055
STLSB	St. Louis Screw & Bolt Co. 6900 NO. Broadway St. Louis, MO 63147	(d).3 (d).4 (d).5	 ❶	84-194 84-194 84-194
TXBLT	Texas Bolt Co. 3233 West 11th St. Houston, TX 77008	(d).3 (d).4	 ❷	89-029 89-031
UNITT	Unytite, Inc. 1 Unytite Drive Peru, IL 61354-9710	(d).3 (d).4	 ❶	91-117 91-117
VERFM	Vermont Fasteners Manufacturing 50 Jonergin Drive Swanton, VT 05488	(d).3 (d).3 (Type 3) A-490		98-031 98-186 98-187
WWASH	Wrought Washer Mfg., Inc. 2100 South Bay Street Milwaukee, WI 53207	(d).5		93-279

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SECTION 1105.02(e)
Welded Stud Shear Connectors
AASHTO 10.3.1.9

COXND	Cox Industries P. O. Box 366 New Haven, MI 48048	3/8", 1/2", & 3/4" 5/8" and 7/8"	91-104 94-006
STUDW	Stud Welding Associates 41515 Schaden Road Elyria, OH 44035	1/4", 3/8", 1/2", 5/8", 3/4", & 7/8"	92-221
TRUFT	Tru-Fit Products Tru-Weld Div. 460 Lake Road Medina, OH 44256	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", & 1"	93-224
TRWNS	TRW Nelson Stud Welding Div. 7900 West Ridge Road Elyria, OH 44036	1/2", 5/8", 3/4, & 7/8"	92-290C-F

SECTION 1105.02(j)
STEEL PIPE, COUPLINGS & FITTINGS

Steel Tube Producers

Producers of Structural Steel Shapes & Plates

NOTE: The Department accepts material supplied from any Steel Mill as long as the material complies with the requirements of Publication 408, Section 106, “Control of Material”.

SECTION 1105.02(s)
GALVANIZERS

		Process	TANK SIZE lengthxwidthxdepth	REF. NO.
AAAIL	AAA Galvanizing of Dixon, IL 310 East Progress Drive Dixon, IL 61021	Hot Dip	51’ x 7’ x 10’	03-059
AAAIN	AAA Galvanizing of Hamilton, IN 7825 South Homestead Drive Hamilton, IN 46724	Hot Dip	35’ x 6’ x 12.5’	03-060
AMEGV	American Galvanizing Co., Inc P. O. Box 408 Folsom, NJ 08037	Hot Dip	36.5' x 5' x 6'	87-211
AMETG	American Tinning & Galvanizing Co 522 West 12th Street Erie, PA 16501	Hot Dip	11' x 3' x 4'	95-104
ARTGV	Art Galvanizing Works, Inc 3935 Valley Road Cleveland, OH 44109	Hot Dip	12’ x 28” x 4’	02-136
BALGV	Baltimore Galvanizing Co., Inc. 7110 Quad Ave. Baltimore, MD 21237	Hot Dip	13' x 4.5' x 4.5'	95-078
COLUB	Columbus Galvanizing (Voight & Schweitzer, Inc.) 1000 Buckeye Park Road Columbus, OH 43207	Hot Dip	12' x 3' x 3' 45' x 5.5' x 8.5'	----------
CONGV	Connecticut Galvanizing P O. Box 358 Glastonbury, CT 06033-0358	Hot Dip	30.5’ x 5’ x 7.5’	04-006

SECTION 1105.02(s)
GALVANIZERS (Continued)

		Process	TANK SIZE lengthxwidthxdepth	REF. NO.
DUNGV	Duncan Galvanizing 69 Norman Street Everett, MA 02149	Hot Dip	70' x 5'2" x 7'	97-012
ELDER	Elderlee, Inc. Oak Corners Galvanizing, Inc. Oak Corners, NY 14518	Hot Dip	38.5' x 5' x 6'	----------
FRONT	Frontier Hot-Dip Gal. Co., Inc. 1740 Elmwood Ave. Buffalo, NY 14207-0199	Hot Dip	27' x 4' x 6'	88-312
GREGV	Gregory Galvanizing 4100 13th Street S. W. Canton, OH 44708	Hot Dip	52' x 6'4" x 8.5' 16' x 4.5' x 5.5'	----------
GALVA	Galvan Industries 7320 Millbrook Rd. Harrisburg, NC 28075	Hot-Dip	42' x 4.5' x 7'	95-177
GATGV	Gateway Galvanizing, Inc 1117 Brown Forman Road Jeffersonville, IN 47130	Hot-Dip	44' x 5.5' x 7.5'	00-310
GLVZR	Galvanizers, Incorporated 714 12th Avenue Northeast West Fargo, ND 58078	Hot Dip	41' x 4.5' x 5'	98-087
HUBBL	Hubbell, O. W. & Sons P. O. Box 37 New York Mills, NY 13417	Hot Dip	38' x 3.5' x 6'	95-034
INGLV	Industrial Galvanizers Va., Inc. 3535 Halifax Road Petersburg, VA 23805	Hot Dip	49' x 5' 8" x 8' x 8"	98-092

SECTION 1105.02(s)
GALVANIZERS (continued)

		Process	TANK SIZE lengthxwidthxdepth	REF. NO.
KORNS	Korns Galvanizing Co. P. O. Box 190 75 Bridge Street Johnstown, PA 15902	Hot Dip	12' x 3.5' x 5' 8' x 3.5' x 4'	94-101
MECGV	Mechanical Galc-Plating Corp. 933 Oak Ave. Sidney, OH 45365	Mechanical Galvanizer NOT HOT DIP		94-015
MPGV0	Metalplate Galvanizing, Inc. 1120 39th Street North Birmingham, Al 35201			84-203
MPGV1	757 44th Street North (Plant 1) Birmingham, AL 35201-0966	Hot Dip	22' x 4'4" x 5.5'	84-203
MPGV2	1120 39th Street North (Plant 2) Birmingham, AL 35201-0966	Hot Dip	42' x 5' x 6'	84-203
MPGV3	500 Selig Drive Atlanta, GA 30336	Hot Dip	42' x 5' x 6'	84-203
MPGV4	7123 Mowcries Road West Jacksonville, FL 32219	Hot Dip	28' x 5' x 6'	84-203
MPGV5	10625 Needham Street Houston, TX 77013	Hot Dip	42' x 5' x 6'	84-203
MONNG	Monnig Industries, Inc. 400 Industrial Dr., P.O. Box 98 Glasgow, MO 65254-0098	Hot Dip	24' x 4' x 5.5' 24' x 5' x 4.5' (2) 10 ft^3 barrels	91-027
NAMG1	North American Galvanizing Co. 200 32nd Avenue, North Nashville, TN 37209-3901 **Formerly: NAMGV**	Hot Dip	51' x 6'-6" x 8'-6"	89-341
NAMG2	770 East 12th Street Kansas City, MO 64126	Hot Dip	30'.x 4.5' x 5.5'	02-091
NEVGV	Neville Galvanizing 3005 Grand Ave., Neville Island Pittsburgh, PA 15225	Hot Dip	11' x 3'1" x 4'	----------

SECTION 1105.02(s)
GALVANIZERS (continued)

		Process	TANK SIZE Lengthxwidthxdepth	REF. NO.
NJG&T	New Jersey Gal. & Tin Works, Inc. 139 Hayes Ave. Newark, NJ 07114	Hot Dip	40.5' x 4'4" x 4.5'	----------
NICGV	Nicholas Galvanizing Co., Inc. 120 Duffield Ave. Jersey City, NJ 07306	Hot Dip	21' x 3' x 3'4"	89-005
OH-GV	Ohio Galvanizing Corp. 467 West Fairground Street Marion, OH 43302	Hot Dip	30' 6" x 5' x 7.5'	96-254
RGBGV	Rogers Brothers Inc. 2007 Kishwaukee Street Rockford, IL 61104	Hot Dip	12' x 3' x 4' 22' x 4' x 5' 22' x 4' x 5'	95-214
SAGV0	South Atlantic Galvanizing Hwy 276 West Travelers Rest, SC 29690	Hot Dip	28' x 4' x 6.5'	----------
SAGV1	3025 Steelway Dr.,P.O. Box 1380 Graham, NC 27253	Hot Dip	51' x 5' x 10'	83-142
SAGV2	Hwy 280 West Claxton, GA 30417	Hot Dip	28' x 4' x 6.5'	83-142
SAGV3	4186 South Creek Rd. East Chattanooga, TN 37406	Hot Dip	45’ x 5.5’ x 9’	----------
SOUGV	Southern Galvanizing, Inc. 1620 Bush Street Baltimore, MD 21230	Hot Dip	35' x 6.5' x 8'	----------
SWGLV	Southwest Galvanizing, Inc. 737 Aleen Street P. O. Box 24188 Houston, TX 77229-4188	Hot Dip	42' x 5' x 5'-6" 32'-6" x 4'-2" x 5' 30'-6" x 4' x 5' 14' x 3' x 4'-2"	98-210
TENNG	Tennessee Galvanizing, Inc. 1535 Industrial Blvd. P.O. Box 609 Jasper, TN 37347	Hot Dip Hot Dip Hot Dip	42' x 5' x 7' 18’ x 2’-2” x 6’-6” 14’ x 4’ x 5’	01-083 01-083 01-083

SECTION 1105.02(s)
GALVANIZERS (continued)

		Process	TANK SIZE lengthxwidthxdepth	REF. NO.
VAGAL	Virginina Galvanizing Corp. P. O. Box 1420, Rt. 783 Ashland, VA 23005	Hot Dip	22' x 4' x 6'	97-053
VALM0	Valmont Ind., Inc. Highway #275 Valley, NE 68064	Hot Dip	58' x 6' x 8.5'	91-142
VALM3	10909 Franklin Ave. Franklin Park, IL 60131	Hot Dip Hot Dip	52' x 56" x 6' 26' x 5' x 7'	00-152 00-152
VICTA	Victaulic Company, Apex Facility 119 Edision Road Stewartsville, NJ. 08886	Hot Dip	21' x 3' x 54"	00-277
VOISG	Voigt & Schweitzer Galvanizers 12600 Arnold Street Redford, MI 48239	Hot Dip	42' x 6' x 8.5'	00-311
VSAGV	V & S Amboy Galvanizing LLC 1190 Amboy Avenue Perth Amboy, NJ 08861	Hot Dip	25' x 6' x 10'	00-278
VSLGV	V & S Lebanon Galvanizing LLC 153 Micro Drive Jonestown, PA 17038	Hot Dip	56' x 7'-2" x 10'-2"	02-033
VSPGV	V & S Philadelphia Galvanizing LLC. 2520 East Hagert Street Philadelphia, PA 19125	Hot Dip	34' x 5' x 7'	87-314
YOUNG	Young Galvanizing, Inc. P. O. Box 334, Route 551 Pulaski, PA 16143	Hot Dip Hot Dip	48' x 5' x 8.5' 24' x 5' x 6'	----------

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SECTION 1107.02
PRESTRESSED CONCRETE BRIDGE BEAMS

REF. NO.

EASPP Eastern Prestressed Concrete Prod. Corp.
P. O. Box 308
Hatfield, PA 19443

J&RS1 Slaw, J. & R., Inc.
588 S. Kittatinny Rd.
P. O. Box D
Bowmanstown. PA 18030-0060
95-044
Ltr 08/13/97

NEW-0 New Enterprise S & L Co.
Concrete Products Div.
P. O. Box 34
Roaring Springs, PA 16673

SCHUY Schuylkill Prod., Inc.
121 River Street
Cressona, PA 17929

TOP-R Top-Roc Newcrete Prod. Co.
2210 Manchester Rd.
Erie, PA 16506

Monday, April 26, 2004

SECTION 1107.02(m)
BOX BEAM VOID FORMS

			REF. NO.
CLFNA	Cellofoam North America, Inc. 33 Baron Park Road Falmouth, VA 22405 **Plant:** Conyers, GA	Cellofoam EPS	99-080
DOW-3	Dow Chemical Corporation 200 Lackin Center 1605 Joseph Drive Midland, MI 48674	Styrofoam (EPS)	99-182
INSUC	Insulation Corporation of America 2571 Mitchell Avenue Allentown, PA 18103	Ica-Lite (EPS)	93-032
INSUL	Insul-Board, Inc. 2120 Colonial Ave., P.O. Box 8103 Erie, PA 16505	Insul-Board (EPS)	88-107
OPC-N	Opco, Inc. Harrison Ave. West, P.O. Box 101 Latrobe, PA 15650	Op-Foam (EPS)	91-276
PACEM	Pacemaker Plastics Co., Inc . 126 New Pace Rd. Newcomerstown, OH 43832	Chemform Polyvoid (EPS)	92-149
POLMD	Poly/Molding Corp. Fourth Ave. Haskell, NJ 07420	Poly Foam	95-311
SPRCC	Spring Cove Container Roaring Spings, PA 16673	Cardboard	----------
SHELE	Shelter Enterprises, Inc. 8 Saratoga Street Cohoes, NY 12047	Shelterfoam	03-068

SECTION 1107.02(n)3.d
7 - WIRE STRAND

Steel Products Procurement Act applies

				REF. NO.
AMESP	American Spring Wire Corp. 26300 Miles Road Bedford Heights, OH 44146	270 K	LoLax	----------
CON00	Contech Constr. Prod., Inc. 1001 Grove St. Middletown, OH 45044			
CON09	Kansas City, MO	270K	LoLax	----------
FLWCA	Florida Wire & Cable Co. 825 North Lane Ave. P. O. Box 6835 Jacksonville, FL 32205	270K	LoLax	----------
INST2	Insteel Wire Products 638 Rappahannock Wire Road Gallatin, TN 37066	270K	LoLax	94-081
STRTM	Strand Tech Martin P.O. Box 2220 Summerville, SC 29484	270K	LoLax	00-051
SUMWP	Sumiden Wire Products Corp. 710 Marshall Stuart Drive Dickson, TN 37055	270K	LoLax	98-151

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SECTION 1107.02(p)1
CLOSED CELL NEOPRENE SPONGE

			REF. NO.
RUBAT	Rubatex Corporation 906 Adams Street Bedford, Va 24523-2168	G-207-N R-470	89-011 02-008
WILPR	Williams Products, Inc. 1750 Maplelawn Blvd. Troy, MI 48084	Everlastic	93-226

SECTION 1108.03(f)
ADMIXTURE FOR POST TENSION GROUT

Concrete Admixtures previously referenced in this section have been moved to:
Section 711.3, 'Concrete Admixtures' listed as Grout Fluidifiers (GF)

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SECTION 1109
GUIDE RAIL & METAL MEDIAN BARRIER
Steel Products Procurement Act applies

(A) RAILS 1109.01
1. Rail Elements 1109.01(a)
2. Rubbing Rails 1109.01(b)
(B) TERMINAL SECTIONS 1109.02)
(C) POSTS 1109.03
1. Steel I Beam 1109.03(a)
2. Steel C & Channel 1109.03(b)
3. Wood Guiderail Post 1109.03(c)
4. Terminal Wood 1109.03(d)
5. Foundation Wood 1109.03(e)

(D) OFFSET BRACKETS 1109.04
1. Steel (See note below)
2. Wood 1109.04(b)
a). Wood 6"x8"x14"
b). Wood 4"x8"x14"
3. Plastic 1109.04(c)
4. Composite 1109.04(d)

(E) MISCELLANEOUS MATERIAL 1109.05
1. Nuts, Bolts, Washers 1109.05(a)
2. Plates, Angles, Hardware 1109.05(b)
3. Rotating Brackets 1109.05(c
4. Steel Spacer Tube 1109.05(d)

ATTENUATION DEVICES See Section 619

(D)1. Steel Offset Brackets: Only approved for contracts let prior to 10-02-2002

		TYPE	REF. NO.
ANRTP	Anro Timber Products 3209 Buckhaven S.E. Ada, MI 49301	C 3 D 2a	99-067 99-068
BENNE	Bennett Bolt Works, Inc. 12 Elbridge Street Jordan, NY 13080	E 1	85-135
BURPB	Burke-Parsons-Bowlby Corp. 3210 Parkersburg Road Reedy, WV 25270	C 3 D 2a	98-101 98-101
CON00	Contech Constr. Prod., Inc. 1001 Grove St. Middletown, OH 45044	A 1, A 2 C 1, C 2 **D 1**	---------- ---------- ----------
CON06	Winchester, KY	E 3	----------
CREAT	Creative Building Prod. 4307 Arden Drive Fort Wayne, IN 46804-4446	D 3	96-199
DEKLB	Dekalb Molded Plastics 550 West Main Street Butler, IN 46721	D 4, (Lightweight)	02-071
DI-HS	DI Highway Sign & Str. Corp P. O. Box 123 New York Mills, NY 13417-0123	A 1, A 2, B C 1 **D 1** E 1, E 2	91-345 91-344 91-344 91-344

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SECTION 1109
GUIDE RAIL & METAL MEDIAN BARRIER
Steel Products Procurement Act applies

(A) RAILS 1109.01
1. Rail Elements 1109.01(a)
2. Rubbing Rails 1109.01(b)
(B) TERMINAL SECTIONS 1109.02)
(C) POSTS 1109.03
1. Steel I Beam 1109.03(a)
2. Steel C & Channel 1109.03(b)
3. Wood Guiderail Post 1109.03(c)
4. Terminal Wood 1109.03(d)
5. Foundation Wood 1109.03(e)

(D) OFFSET BRACKETS 1109.04
1. Steel (See note below)
2. Wood 1109.04(b)
a). Wood 6”x8”x14”
b). Wood 4”x8”x14”
3. Plastic 1109.04(c)
4. Composite 1109.04(d)

(E) MISCELLANEOUS MATERIAL 1109.05
1. Nuts, Bolts, Washers 1109.05(a)
2. Plates, Angles, Hardware 1109.05(b)
3. Rotating Brackets 1109.05(c
4. Steel Spacer Tube 1109.05(d)

ATTENUATION DEVICES See Section 619

(D)1. Steel Offset Brackets: Only approved for contracts let prior to 10-02-2002

		TYPE	REF. NO.
ECOMP	Eco-Composites, LLC 17169 Hayes Road Grand Haven, MI 49417	D 4	02-118
ELDER	Elderlee, Inc. Cross Road Oak Corners, NY 14518	C 1 **D 1** E 2, E 3	87-158 87-158 87-158
GREGV	Gregory Galv. & Metal Prod. 4100 13th Street W. P. O. Box 80508 Canton, OH 44708	A 1, A 2 B C 1 **D 1**	94-014 94-281 95-321 95-321
HAYDN	Haydon Bolts, Inc. Adams Ave. & Unity St. Philadelphia, PA 19124	E 1, (Bolts)	90-048
HIGSC	Highway Safety Corporation 239 Commerce Street P. O. Box 358 Glastonburg, CT 06033-0358	A 1, A 2, B C 1, C 2 **D 1** E 1, E 2, E 3, E 4	89-180 89-180 89-180 89-180
INTTP	Interstate Timber Products Co. 111 Garnet Lane Oak Ridge, TN 37830	D 3	03-017
J&L-S	J & L Structural Inc. 111 Station St. Aliquippa, PA 15001	C 1 C 2	90-062 90-064
LIFLP	Lifetime Lumber Products 3407 Oak Alley Court, Unit 503 Toledo, OH 43606	D 4	98-028

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SECTION 1109
GUIDE RAIL & METAL MEDIAN BARRIER

Steel Products Procurement Act applies

(A) RAILS 1109.01
1. Rail Elements 1109.01(a)
2. Rubbing Rails 1109.01(b)
(B) TERMINAL SECTIONS 1109.02)
(C) POSTS 1109.03
1. Steel I Beam 1109.03(a)
2. Steel C & Channel 1109.03(b)
3. Wood Guiderail Post 1109.03(c)
4. Terminal Wood 1109.03(d)
5. Foundation Wood 1109.03(e)

(D) OFFSET BRACKETS 1109.04
1. Steel (See note below)
2. Wood 1109.04(b)
a). Wood 6”x8”x14”
b). Wood 4”x8”x14”
3. Plastic 1109.04(c)
4. Composite 1109.04(d)

(E) MISCELLANEOUS MATERIAL 1109.05
1. Nuts, Bolts, Washers 1109.05(a)
2. Plates, Angles, Hardware 1109.05(b)
3. Rotating Brackets 1109.05(c
4. Steel Spacer Tube 1109.05(d)

ATTENUATION DEVICES See Section 619

(D)1. Steel Offset Brackets: Only approved for contracts let prior to 10-02-2002

		TYPE	REF. NO.
MIDWF	Mid West Fabricating Co. 313 North Johns Street Amanda, OH 43102	E 1, (Bolts)	99-168
MIDWW	Midwest Wood Treating, Inc. Div. of Midwest Wholesalers, Inc. 4832 Plank Road, P. O. Box 610 Norwalk, OH 44857	C 3, C 4, C 5 D 2a D 2b	95-252 95-185 03-116
MONDP	Mondo Polymer Technologies State Route 7, P.O. Box 250 Reno, OH 45773	D 3 D 3, (Lightweight)	97-158 02-062
RAMC1	Ramco International 3102 Estate Drive, Bldg. 1 Oakdale, PA 15071	D 3	99-200
RG-ST	R. G. Steel Corp. P. O. Box 356, Rt. 551 Pulaski, PA 16143	A 1, B A 2 C 1 **D 1** E 3 E 2 E 4	96-230 99-077 99-022 93-267 94-294 94-295 99-078
SIGMA	Sigma Industries P. O. Box 347 Selbyville, DE 19975	C 1	92-245
SOLOF	Silo Fasteners, Inc 1025 Winchester Ave. Kansas City, MO 64126	E 1, (Bolts)	99-135

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SECTION 1109
GUIDE RAIL & METAL MEDIAN BARRIER
Steel Products Procurement Act applies

(A) RAILS 1109.01
1. Rail Elements 1109.01(a)
2. Rubbing Rails 1109.01(b)
(B) TERMINAL SECTIONS 1109.02)
(C) POSTS 1109.03
1. Steel I Beam 1109.03(a)
2. Steel C & Channel 1109.03(b)
3. Wood Guiderail Post 1109.03(c)
4. Terminal Wood 1109.03(d)
5. Foundation Wood 1109.03(e)
(D) OFFSET BRACKETS 1109.04
1. Steel (See note below)
2. Wood 1109.04(b)
a). Wood 6”x8”x14”
b). Wood 4”x8”x14”
3. Plastic 1109.04(c)
4. Composite 1109.04(d)
(E) MISCELLANEOUS MATERIAL 1109.05
1. Nuts, Bolts, Washers 1109.05(a)
2. Plates, Angles, Hardware 1109.05(b)
3. Rotating Brackets 1109.05(c
4. Steel Spacer Tube 1109.05(d)

ATTENUATION DEVICES See Section 619

(D)1. Steel Offset Brackets: Only approved for contracts let prior to 10-02-2002

		TYPE	REF. NO.
SOEBS	Southeastern Bolt & Screw, Inc. 1037 16th Ave. West Birmingham, Al 35204	E 1	91-059
STCBS	Steel City Bolt & Screw Inc. 230 West Valley Ave. P. O. Box 1747 Birmingham, AL 35201	E 1, (Bolts)	90-036
STHWS	Statewide Hi-Way Safety, Inc. 1512 Mays Landing Road Folsom, NJ 08037	C 1	01-099
TAYLR	Taylor-Ramsey Corp. P. O. Box 11888 Lynchburg, VA 24506	C 4 C 5 D 2a	99-055 99-056 99-057
TRIN0	Trinity Industries Syro Steel Division 1170 North State Street Girard, OH 44420	A 1, A 2, B C 1, C 2 **D 1** D 2a E 1, E 2, E 3, E 4	---------- ---------- ---------- 99-066 ----------
VALLR	Valley Rubber LLC Inc. 3899 Highway 31 North Falkville, Al 35622	D 4	02-112
V&SSE	V & S Schuler Engineering 2240 Allen Ave. S.E. Canton, OH 44707	A 2 C 1	94-046 94-046

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SECTION 1110
RIGHT OF WAY FENCE
Steel Products Procurement Act applies

(A) Galvanized Steel Fabric **(C) Vinyl-Coated Fabric**
(B) Aluminium-Coated Steel Fabric **(D) Posts** **(E) Fittings & Hardware**

			REF. NO.
ALLTC	Allied Tube & Conduit Corp. 16100 South Lathrop Ave. Harvey, IL 60426	(D)	00-028
ANCHR	Master-Halco, Inc. Anchor Fence, Div 6500 Eastern Ave. Baltimore, MD 21224	(A, C, D, E) (B)	---------- 95-243&4
BENNE	Bennett Bolt Works P. O. Box X Jordan, NY 13080	(D, E)	----------
BKERT	Bekaert Corporation 1395 South Marietta Parkway Building 500, Suite 100 Marietta, GA 30067	(A)	99-027
CGLSW	Cargill Steel & Wire 4323 Outland Road Memphis, TN 38018	(A)	98-132
EASCA	EASCO Aluminium Co. 1007 Jersey Ave. New Brunswick, NJ 08902	(D, E)	----------
FRANK	Franklin Industries P. O. Box 671 Franklin, PA 16323	(D, E)	----------

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SECTION 1110
RIGHT OF WAY FENCE
Steel Products Procurement Act applies

(A) Galvanized Steel Fabric **(C) Vinyl-Coated Fabric**
(B) Aluminium-Coated Steel Fabric **(D) Posts** **(E) Fittings & Hardware**

			REF. NO.
GREGV	Gregory Galvanizing 4100 13th Street S. W. P. O. Box 80508 Canton, OH 44708	(D, E) 1110.02(a)3 "C" Fabric up to 5' 1110.02(a)3 "H" Fabric up to 8' 1110.02(a)3 Roll-formed "C" Section Fence Framework coated with Galfan 1", 2", & 2 3/8"	90-291 90-291A 90-291B 93-251
INST1	Insteel Wire Products 800 New Castle Ave. Wilmington, DE 19801	(B)	91-1333A
LANCC	Lancaster Composite, Inc. P. O. Box 247 Columbia, PA 17512	(D) Composite Post 40 **Provisional Approval :** Special Provision S00(PD06241A) **BCM must be contacted prior uo use. (717)787-3137**	95-239
RHINE	Rhinotube, LLC 17 Wood Street West Haven, CT 06516	R-40 Posts	98-102
SEWRE	Southeastern Wire 9800 Reeves Road Tampa, FL 33619	(A, B, C)	96-067
STEPN	Stephens Pipe & Steel, Inc. 10732 Schadel Road SE Mount Sterling, OH 43143	(A)	00-090
WHETC	Wheatland Tube Co. One Council Avenue Wheatland, PA 16161	(D) (D)	98-110 98-136

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SECTION 1111
HIGH LOAD MULTI-ROTATIONAL BEARINGS

Pot Bearings .03(a)1 **Disc Bearings .03(a)2** **Spherical Bearings .03(a)3**

Companies not currently listed must be preapproved by the Structural Materials Engineer, MTD,Harrisburg, PA prior to commencement of any fabrication.

❶ Only Approved to Fabricate Bearings for R. J. Watson, Inc.

		TYPE	REF. NO.
AGBWK	Augusta Bearing Works, **(Div. of Cosmec)** 610 11th Street Augusta, GA 30901	(a)1	----------
BROWD	Brown, D. S., Co., Inc. P. O. Box 158 North Baltimore, OH 45872	(a)1, (a)3	----------
CONSV	Con-Serv, Inc. 2963 Interstate Parkway Brunswick, OH 44212	(a)1, (a)2, (a)3	03-012
COSME	Cosmec 70 South St., P. O. Box 307 Wapole, MA 02081	(a)1, (a)3	90-146
HALL1	Hall Industries, Hall Equipment Division 1 USS Industrial Park Ellwood City, PA 16117	(a)1	01-022
HIGH1	High Steel Structures, Inc. P. O. Box 10008 Lancaster, PA 17605-0008	(a)1, (a)2, (a)3	----------
KERCH	Kercher Machine Works, Inc. 920 Mechanic Street Lebanon, PA 17042	(a)1	----------
LUBTC	Lubrite Technologies 18649 Brake Shoe Road Meadville, PA 16335-0458	(a)1, (a)3	90-309A,B
NATBR	National Bridge Co., Inc. 1060 Military Road Buffalo, NY 14217	(a)2 ❶	01-038
VOSSM	Voss Manufacturing, Inc. 2345 Lockport Road Sanborn, NY 14132	(a)2 ❶	99-076
ZSTAR	Z-Star, Inc. 22620 Fisher Road Watertown, NY 13601	(a)1, (a)2, (a)3	03-130

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SECTION 1112
GLUED LAMINATED HARDWOOD TIMBER MEMBERS

❶ Timber Fabricator ❷ Treater

		TYPE	REF. NO.
ALAWP	Alamco Wood Products, Inc. 1410 West Ninth Street Albert Lea, MN 56007	❶	00-236
BURPB	Burke-Parsons-Bowlby Corp. R.R #3, Box 275 DuBois, PA 15801	❷	02-079
KOPRS	Koppers Industries, Inc. 50 Koppers Lane Montgomery, PA 17752	❷	99-194
RIGID	Rigidply Rafters, Inc. 701 East Linden Street Richland, PA 17087	❶	99-176

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SECTION 1113.02(a) & (b)
PLAIN AND LAMINATED NEOPRENE BEARING PADS

		PLAIN		LAMINATED	
		50D	60D	50D	60D
BROWD	Brown, D. S., Co., Inc. 300 East Cherry St. North Baltimore, OH 45872	86-117	86-118	86-119A	86-119B
BRPMF	BRP Manufacturing Co. 637 North Jackson St. Lima, OH 45802-0389		01-174		
SCOUG	Scougal Rubber Corp. 6239 Corson Ave. South Seattle, WA 98108	98-178	98-178	98-178	98-178
SEISM	Seismic Energy Products 518 Progress Way Athens, TX 75751	----------	----------	----------	----------
VOSSE	Voss Engineering, Inc. 6965 North Hamlin Ave. Lincolnwood, IL 60712	00-198	00-198		
WSTAR	West American Rubber Co., Inc. 750 North Main Street Orange, CA 92668	99-051	99-051		

SECTION 1113.03(H)
BEDDING MATERIAL FOR BRIDGE SHOES

			REF. NO.
ELKHA	Elkhart Industries, Inc. P. O. Box 7385 High Point, NC 27264	Elkhart "Yellow" preformed pad, Type II	94-247
FABRK	Fabreeka International, Inc. 1023 Turnpike Street P. O. Box 210 Stroughton, MA 02072	FABCO SA47, Type I Fabreeka, Type II	81-022 ----------
VOSSE	Voss Engineering, Inc. 6965 North Hamlin Ave. Lincolnwood, IL 60712	SORBTEX, Type II	00-200

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MISCELLANEOUS
ANCHORING DEVICES
Anchoring Adhesives and Mechanical Anchors

"For use in Vertical Positions Only" (See Section 516.2(k) for horizontal anchoring applications)

All adhesive, expansion and drop-in anchors are to be considered as Type B "non-safety"

			REF. NO.
CHMRX	ChemRex, Inc. 889 Valley Park Drive Shakopee, MN 55379	Concressive 1420	95-016B
DAYT0	Dayton Superior Dayton / Richmond Conc. Acc. Div. 721 Richard St. Miamiburg, OH 45342	Sure-Anchor I (J-51) Type A & B Preset Anchors	96-204 97-169
DUPT1	DuPont Co. R. R. # 2, Box 217 Martinsburg, WV 25401	Fasloc and Fasloc T	95-126
ENERG	Energy Absorption Sys., Inc. 1 East Wacker Dr. Chicago, IL 60601	MP-3 Polyester Anchoring	86-370
FOGLA	A & P Foglia, Inc. 14 Hickory Drive. East Brunswick, NJ 08816	Magnabond	91-349
HILT-	Hilti, Inc. 5400 South 122nd East Ave. P. O. Box 21148 Tulsa, OK 74121	Hit C100 Adhesive Hilti Drop-In Anchor HDI Drop-In Anchor Kwik Bolt II (Carbon & Stainless Steel) HVA Adhesive HSE 2411 Epoxy Hilti Hit HY 150 Injection Adhesive * Hilti HSE 2421 Adhesive * Manufactured by U.S. Anchor Corp. RE-500 Anchoring Epoxy	88-152 74-009 96-136 89-286A,B 82-088 93-038 96-054 99-095 01-101
ITW-R	ITW Ramset/Red Head 1300 North Michael Dr. Wood Dale, IL 60191	EPCON Ceramic 6 Epoxy System EPCON Granite 5 EPCON Sys Acrylic 7 Trubolt Wedge Anchor, Galv. Trubolt Wedge Anchor, Stainless Multi-Set II Expansion Anchor, Galv. Multi-Set II Expansion Anchor, Stainless	88-131 93-276 97-027 92-363A 92-363B 92-362A 92-362B

MISCELLANEOUS
ANCHORING DEVICES
Anchoring Adhesives and Mechanical Anchors

"For use in Vertical Positions Only" (See Section 516.2(k) for horizontal anchoring applications)

All adhesive, expansion and drop-in anchors are to be considered as Type B "non-safety"

			REF. NO.
KAUFM	Kaufman Products Inc. 3811 Curtis Ave. Baltimore, MD 21226-1131	Sure-Poxy 116 Sure-Poxy 117	92-169 90-371
KELKN	Kelken Construction Systems P. O. Box 284 3220 Bordentown Ave. Parlin, NJ 08859	Kelibolt, Kelistud, Kelieye Keligrout, Kelibond Kelipoxy F-13 Keligrout Keligrout 101P	83-125 83-124 90-168 98-115 98-116
MEDW0	W. R. Meadows, Inc. 300 Industrial Drive P.O. Box 338 Hampshire, IL 60140-0338	Rezi-weld gel paste epoxy	93-280
MKTFS	MKT Fastening LLC #1 Gunnebo Drive Lonoke, AR 72086	Tapered Bolts Sup-R-Stud Wedge Anchor Liquid Roc 300 Polyester Capsule Liquid Roc 300 polyester pump Liquid Roc 300 Twin Tube Liquid Roc 500 epoxy Twin Tube Liquid Roc 500 Pump	96-092A 96-092B 96-092C 96-092D 96-092E 96-092F 98-148
PENRL	PennRail Systems, Inc. 207 Allegheny Street Hollidaysburg, PA 16648	Anchor Insert Item # I .0001 Anchor Insert Item # I .0002	99-204 99-205
PLYGM	PolyGem, Inc. 1105 Carolina Drive West Chicago, IL 60185	#1257 Epoxy Anchoring Adhesive	93-270

MISCELLANEOUS
ANCHORING DEVICES
Anchoring Adhesives and Mechanical Anchors

"For use in Vertical Positions Only" (See Section 516.2(k) for horizontal anchoring applications)

All adhesive, expansion and drop-in anchors are to be considered as Type B "non-safety"

			REF. NO.
POWFS	Powers Fasteners, Inc. 2 Powers Square New Rochelle, NY 10801	Power Stud Anchors	91-205
		Drop-In Anchors: Stainless Steel	91-205A
		Carbon Steel	91-205B
		Power Bolt	91-206
		Powers Hammer Capsule	98-128
		Powers Acrylic 100	98-129
		Dowel Fast Adhesive	98-130
		Power Bond Epoxy	98-131
		Wedge Bolt Anchor	00-274
		AC 100 Plus	01-232
QKSFS	Quik-Set Fastening Systems Jack Moore Assoc., Division 250 Barber Avenue Worcester, MA 01606	Quikset Adhesive Anchor	99-081A
		Quikset Hammer Capsule	99-081B
		Quikset Adhesive Capsule	99-081C
SIKA1	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302	Sikadur InjectionGel Sikadur DOT SP 3/4 DBA (epoxy as Injection Gel)	89-236
SIMST	Simpson Strong Tie, Inc. 136 Official Road Addison, IL 60101	Simpson Epoxy-Tie	85-008
		Drop in Anchors Type B	92-256A&B
		Coil Thread Drop-In-Anchor	97-074
		Acrylic Tie	99-223
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Duralcrete Gel **(Slow cure)**	91-197
		Dural Fast Set Epoxy LV	99-183
UNITX	Unitex 3101 Gardner Kansas City, MO 64120	Pro-Poxy 300 Fast	94-093B
		Pro-Poxy 300	96-016
		Pro-Poxy 400	01-228
USANC	U. S. Anchor Corp. 450 East Copens Pompano Beach, FL 33064	Ultrabond Epoxy	92-013
		Ultrabond Epoxy Capsules	93-237
		Ultrabond Speedset-2	99-032
		Anchor-It HS-200	02-048

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MISCELLANEOUS
ANTI - GRAFFITI PAINT SYSTEMS

	COMPANY	SYSTEM / PRODUCT ID
AMER1	Ameron Corrosion 456 Goldsmith Rd. Pittsburgh, PA 15237	Amerloc 400 (SB Epoxy) Amershield White Coat Amershield White Coat Graffiti Cleaner Amerase
AGP-S	A. G. P. Surface Control Sys. P. O. Box 388 Thunderbird Terrace Windham, NY 12496	Perma Coat (WB Epoxy) Protecta-Coat Graffiti Cleaner Wipe A Way
BRUDR	Bruder, M. A. & Sons, Inc. 600 Reed Road P. O. Box 600 Broomall, PA 19008	Ply-Tile 520-W-45 (11-998) Ply-Thane 800 Color Coat (52 Line) Ply-Thane 800 Color Coat (52 Lines) Ply-Tile 520-W-45 (11-998) Ply-Thane 800 Color Coat (52 Line) Ply-Tile 520-W-45 (11-998) Ply-Thane 800 Color Coat (52 Line) Anti-Graffiti Clear Coat (252 Line) Ply-Thane 800 Color Coat (52 Line) Anti-Graffiti Clear Coat (252 Line) Anti-Graffiti Clear Coat (252 Line) Sea Shore Color Latex Primer (61 Line) Anti-Graffiti Clear Coat (252 Line) Anti-Graffiti Clear Coat (252 Line) Clear Concrete Sealer (20-C-354) Ply-Thane 800 Color Coat (52 Line) Anti-Graffiti Clear Coat (252 Line) Ply-Mastic Color Coat (761) Anti-Graffiti Clear Coat (252 Line) Polyester Aliphatic Urethane (052-007 A/B) Polyester Aliphatic Urethane (052-007 A/B) Polyester Aliphatic Urethane (052-007 A/B)

MISCELLANEOUS
ANTI - GRAFFITI PAINT SYSTEMS

	COMPANY	SYSTEM / PRODUCT ID	
CARBL	Carboline Co. 350 Hanley Industrial Court St. Louis, MO 63144-2985	Carboline 890 (SB Epoxy) Carboline 134	
		Carboline 890 (SB Epoxy) Carboline 834	
		Carboline 1340 (SB Epoxy) Carboline 134	
		Carboline 1340 (SB Epoxy) Carboline 834	
		Graffiti Cleaner	Surface Cleaner #3
COAT-	Coatings for Industry 319 Township Line Road Souderton, PA 18964	WB Epoxy 1002 Urethabond 211	
		B Epoxy 1002 Urethabond 111 Urethabond 111	
		Urethabond 104 Urethabond 111 Urethabond 111	
		Urethabond 104 Urethabond 211	
		Graffiti Cleaner	GFI 739 Graffiti Remover
CON-L	Con-Lux Coatings, Inc. Talmadge Road Edison, NJ 08817	EPO Tile 1135-89 White Poly-Lon 1901 Clear	
		EPO Tile 1135-89 White	

MISCELLANEOUS
ANTI - GRAFFITI PAINT SYSTEMS

	COMPANY	SYSTEM / PRODUCT ID	
UNICH	Unichem Coatings Co. RD. #1, Box 246 New Ringgold, PA 17960	Versa Primer-White Urethane Gloss Urethane Gloss	0100-1 3720-1A/3888-1B 3720-1A/3888-1B
		Epoxy Urethane Gloss Urethane Gloss	2401-1A/2588-1B 3720-1A/3888-1B 3720-1A/3888-1B
		Clear MC Urethane Urethane Gloss Urethane Gloss	3788-1A/3888-2B 3720-1A/3888-1B 3720-1A/3888-1B
		System #1: Clear MC Urethane Clear Matte Urethane Clear Matte Urethane	 3788-1A/3888-2B 3788-2A/3888-3B 3788-2A/3888-3B
		System #2: Clear MC Urethane Clear Gloss Urethane Clear Gloss Urethane	 3788-1A/3888-2B 3788-3A/3888-4B 3788-3A/3888-4B

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MISCELLANEOUS
BITUMINOUS PAVING COURSE FB, MODIFIED

			REF. NO.
GORBR	Gorman Brother's Church Street Port of Albany Albany, NY 12202	FB Modified FB-3 Modified Wearing Course	03-196
HEILM	Heilman Pavement Specialties 290 North Pike Rd. Sarver, PA 16055-9735	HEI-WAY General Purpose Material HEI-WAY Premium Material (FB-3)	Ltr 01/07/92 98-134
RUSS6	Russell Standard Corp. P. O. Box 802 Mars, PA 16046	FB Modified FB-3 Modified Wearing Course	94-054 96-104

MISCELLANEOUS
BRICK (Paving)

		REF. NO.
REDLA	Redland Brick Inc. Hamar Plant 375 Rich Hill Road, R.D. #3 Cheswick, PA 15024	83-172

MISCELLANEOUS
CALCIUM BASED WATER RESISTANT GREASE W/GRAPHITE

			REF. NO.
CSTRL	Castrol Heavy Duty Lubricants, Inc. 9300 Pulaski Highway Baltimore, MD 21220	Drydene Graphite #2	87-328

MISCELLANEOUS
COAL TAR EPOXY

			REF. NO.
CARBL	Carboline Company 350 Hanley Industrial Court St. Louis, MO 63144-2985	Bitumastic No. 300-M	----------
PROGU	Pro Guard Coating 172 Shillington Road Sinking Spring, PA 19608	Propoxy 3009	90-113
ROYST	Royston Labs, Inc. 128 First Street Pittsburgh, PA 15238-3223	Roskote-201	70-005
TAMMS	Tamms Indusrties 3835 State Route 72 Kirkland, IL 60146	Duralkote 302	73-009

MISCELLANEOUS
CORROSION INHIBITOR

◆ **Provisional Approval : MTD must be contacted prior to use. (717) 787-2489**

			REF. NO.
AXIM-	Axim Concrete Technologies, Inc. 8282 Middlebranch Road P.O. Box 234 Middlebranch, OH 44652	Catexol 1000CI	97-139
		◆ Catexol CN-CI	01-200
GRAC0	W. R. Grace Co. 62 Whittemore Ave. Cambridge, MA 02138 **Plant:**	DCI Calcium Nitrite	80-040
		DCIS	97-149
GRAC6	Augusta, GA		
MAST0	Master Builders, Inc. 23700 Chagrin Blvd. Cleveland, OH 44122 **Plants:**	◆ Rheocrete CNI	98-113
		◆ Rheocrete 222+	95-105
MAST1	Allentown, PA		
MAST2	Gurnee, IL		
MAST3	Tipp City, OH		
MAST8	St. Leonard, QE, Canada		
SIKA1	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302	Ferroguard 901 (formerly Armatec 2000)	96-264

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MISCELLANEOUS
Crumb Rubber Modifier (CRM) Additive

		REF. NO.
MAHAN	Mahantango Enterprises, Inc. RR #2, Box 680 Liverpool, PA 17045	94-031
NRIND	NRI Industries, Inc. 811 Progress Drive Chambersburg, PA 17201	----------
SPART	Sparton Enterprises Inc. 3717 Clark Mill Road Barberton, OH 44203	----------

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MISCELLANEOUS
Epoxy Based Surface Treatment For Bridge Decks

❶ **PROVISIONAL SPECIFICATION**
Special Provision S00(PD1O431B)

❶ **This Provisional Specification or any manufacturer or product may be withdrawn immediately, if experience demonstrates a problem with the use of Epoxy Based Surface Treatment For Bridge Decks.**

All Listings Under This Section Are Provisionally Approved

MTD must be contacted prior to use. (717) 787-7150

		TYPE	REF. NO.
HLMTE	Hallemite 80 Cypress Street P. O. Box 840 Warwick, RI 02888	Hallemite 440	97-196
POLYC	Poly-Carb, Inc. 33095 Bainbridge Road Cleveland, OH 44139	Flexogrid	00-168
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Flexolith	94-231

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MISCELLANEOUS
DUST PALLIATIVES

(a) Calcium Lignosulfonate (b) Emulsified Petroleum Resins (c) Magnesium Chloride

◆ **Provisional Approval : ETI Division must be contacted prior to use. (717) 787-3137**

		Product	Type	Ref. No.
AMREG	American Refining Group 77 North Kendall Ave. Bradford, PA 16701	Pennzsupress-D	(b)	91-177
CCDSW	Coburn Chemicals/Dead Sea Works 12 Galloway Avenue Cockeysville, MD 21030	◆ Liquid Mag	(c)	98-049
D&DEM	D & D Emulsions Inc. 270 Park Ave. East, P.O. Box 1706 Mansfield, OH 44901	Coherex	(b)	00-133
GAPAC	Georga Pacific Corp. 777 N. Eldridge Parkway, Suite 300 Houston, TX 77079	Lignosite	(a)	92-110
JMGEN	JMG Enterprises, Inc. 10027 Route 403 highway South Seward, PA 15954	Ultra Bond 2000	(b)	00-235
SUIT0	Suit-Kote 1911 Lorings Crossing Road Cortland, NY 13045-5160	CLS	(a)	96-168
SUIT3	Cortland Asphalt Prod. Cortland, NY		(b)	97-188

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MISCELLANEOUS
TEMPORARY EXPANSION DAM SYSTEMS

① **Asphaltic Plug:** Special Provision S00 (ID10902A)
② **Preformed Silicone:** Special Provision S00 (PD10081A)
③ **Two Part Silicone:** Special Provision S00 (PD07051A)
◆ **Provisional Approval:** **MTD must be contacted prior to use. (717) 787-3137**

	Manufacturer	System	Ref. No.
LARM1	LaFarge Road Markings 400 Lanidex Plaza Parsippany, NJ 07054 Plant: **LARM2** Pennsdale, PA	① Thermo Joint ① BJS	Ltr. 09/03/97 Ltr. 09/03/97
PVTCH	Pavetech International, Inc. 300 East Cherry Street P. O. Box 158 North Baltimore, Ohio 45872 Subsidiary of D.S. Brown, Inc.	① Matrix 502	95-189
SILSP	Silicone Specialties, Inc. P.O. Box 50009 Tulsa, OK 74150	③ XJS ◆	93-157
WATRJ	Watson, R. J., Inc. 78 John Glenn Drive Amherst, NY 14228	② Silicoflex ◆	96-015
WYEQS	Wyoming Equipment Sales P.O. Box 287 West Wyoming, PA 18644-0287	① APJ	00-059

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MISCELLANEOUS
GEOSYNTHETIC CLAY LINER (GCL)

❶ **PROVISIONAL SPECIFICATION**

Special Provision S00(PDO2121A)

❶ **This Provisional Specification or any manufacturer or product may be withdrawn immediately, if experience demonstrates a problem with the use of Geosynthetic Clay Liner.**

All Listings Under This Section Are Provisionally Approved

MTD must be contacted prior to use. (717) 787-3137

		TYPE	REF. NO.
BNTFX	Bentofix Technologies, Inc. 23 Truman Road Barrie, Ontario Canada L4M 6E7	Bentofix NSL	99-109
CETCO	Colloid Environmental Tech. Co. 1500 West Shure Drive Arlington Heights, IL 60004	Bentomat ST	99-075

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MISCELLANEOUS
GALVANIC ANODES (Embedded)

❶ **PROVISIONAL SPECIFICATION**
Special Provision S00(PD07081A)

❶ **This Provisional Specification or any manufacturer or product may be withdrawn immediately, if experience demonstrates a problem with the use of Embedded Galvanic Anodes.**

All Listings Under This Section Are Provisionally Approved

MTD must be contacted prior to use. (717) 787-7150

		TYPE	REF. NO.
VECTR	Vector Corrosion Technologies 474 Dovercourt Drive, Winipeg Manitoba, Canada R3Y 1G4	Galvashield	01-145

MISCELLANEOUS

FLEXIBLE WEATHERPROOFING COATING FOR CONCRETE

	MANUFACTURER	TYPE	REF. NO.
PDI-N	PDI, Inc. P. O. Box 130 Circle Pines, MN 55014	Plastic Dip UV 1800	85-179
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Dural 355	88-351
MONSE	Monsey Prod. Co. Cold Stream Rd. Kimberton, PA 19442	Modac	88-035
WATSB	Watson Bowman Acme Corp. 95 Pineview Drive Amherst, NY 14228	EP Elastic Waterproofing	87-125

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MISCELLANEOUS
METAL CRIBBING
Steel Products Procurement Act applies

			REF. NO.
CON00	Contech Constr. Prod., Inc. 1001 Grove St. Middletown, OH 45044		----------
CON06	Winchester, KY		
TRIN0	Trinity Industries Syro Steel Division 1170 North State Street Girard, OH 44420		----------
WCIST	WCI Steel 1040 Pine Avenue S.E. Warren, OH 44483-6528		----------

MISCELLANEOUS
MODULAR GLARE SCREEN

CARST	Carsonite Internat. Corp. 10 Bob Gifford Blvd. Early Branch, SC 29916-0098		84-159
SAFHC	Safe-Hit Corporation 1930 W. Winton Ave. #11 Hayward, CA 94545	Anti-Glare Shield Sys.	91-053

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MISCELLANEOUS: Traffic Division
PAVEMENT MARKING SYSTEMS

Lines = Center, Lane & Edge Lines
L = Lighted **B** = Bituminous Surface **W** = White
UL = Unlighted **C** = PCC Surface **Y** = Yellow
Other Uses = Crosswalks, Stop Lines, Legends & Crosshatching. ✪ **= Provisional Approval**

METHYL METHACRYLATE

	Company	Material	Color	Lines	Surface	Primer	Beads	Other Uses
AEXCE	Aexcel Coatings 7373 Production Drive Mentor OH 44061-4780	SP01W-40 SP01W-90 SP01W-90 SP01Y-40 SP01Y-90	W W W Y Y	L, UL L, UL L, UL L, UL L, UL	B B C B B, C			Yes Yes No No No
SWAR1	Swarco Ind., Inc. P. O. Box 89 Columbia, TN 38402	S2000/A100 S2000/FT2	W W	L L	B, C B, C			No No

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MISCELLANEOUS: Traffic Division
PAVEMENT MARKING SYSTEMS

Lines = Center, Lane & Edge Lines
L = Lighted **B** = Bituminous Surface **W** = White
UL = Unlighted **C** = PCC Surface **Y** = Yellow
Other Uses = Crosswalks, Stop Lines, Legends & Crosshatching. ✪ **= Provisional Approval**

POLYESTER

	Company	Material	Color	Lines	Surface	Primer	Beads	Other Uses
AEXCE	Aexcel Coatings 7373 Production Drive Mentor OH 44061-4780	75W-DO12 SP01W-90	W Y	L, UL L, UL	B B	No No	M247 M247	No No
BALTP	Baltimore Paint & Chem. Div. of Sherwin Williams 2325 Hollins Ferry Rd. Baltimore, MD 21230	BP8433 BP8434 BP8435/DSW9 BP8435/DX9 BP8442 BP8444 BP10716 BP10717 BP10718 BP8436/DSW9 TM8152 TM8152 TM8138 TM8138 TM8137 TM8153	W Y W W W Y W W W Y W W W W Y Y	L, UL L, UL L, UL L, UL L, UL L, UL L, UL L, UL L, UL L, UL L, UL L, UL L, UL L, UL L, UL L, UL	B, C B, C B, C B, C B, C B, C B, C B, C B, C C B C B C B, C B, C	 No No No No No No	SP SP SP SP SP SP SP SP SP SP M247 M247 M247 M247 M247 M247	No No No No No No No No No No Yes No Yes No No No

PREFORMED WET REFLECTIVE STRIPING TAPE

	Company	Material	Color	Lines	Surface	Primer	Beads	Other Uses
3M-03	3M Traffic Control Mat'ls Div. 3M Center Bldg. 225-5S-08 St Paul, MN 55144-0100	Stamark™ Series 820 Stamark™ Series 821	W Y	L, UL L, UL	B, C B, C	Yes Yes		Yes No

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MISCELLANEOUS: AASHTO T-259 & AASHTO T-260
FHWA RD 78-35, SEC. 4.B.77
Penetrating Sealers to reduce CHLORIDE Penetration of Concrete

❖ **The use of some penetrating sealers may effect the frictional properties of concrete surfaces. Consult the manufacturer before using sealer on surfaces subject to vehicular or predestrian Traffic.**

(A) Epoxy in Solvent
(B) Epoxies Dispersed in Water
(C) Organo-Silicon Compound in Water
(D) Organo-Silicon in Solvents
(E) Polymer Impregnant
(F) Resins in Mineral Spirits
(G) Silicates in Water

		PRODUCT	TYPE	REF. NO.
AQURN	Aquron Corporation P. O. Box 758 Rockwall, TX 75087	Aquron CPT-2000	G	00-298
AXSON	Axson North America, Inc. 1611 Hults Drive Eaton Rapids, MI 48827	Aka-Seal 716	A	83-271
BRUDR	Bruder, M. A. & Sons, Inc. 600 Reed Road, P. O. Box 600 Broomall, PA 19008	Siloxan 16%	D	87-417
CHMRX	ChemRex, Inc. 889 Valley Park Drive Shakopee, MN 55379	Enviroseal 40 Masterseal GP Masterseal SL	C A D	87-129 79-001 91-332
DAYT1	Dayton Superior Corp. 4226 Kansas Avenue Kansas City, KS 66106	Weather Worker S-100(J-29A)	D	96-180
DEGUS	Degussa Corporation Sivento Division 4301 Degussa Road Theodore, AL 36590	Dynasylan BH-N Aqua-Trete BSM 20 Aqua-Trete BSM 40 Chem-Trete BSM 40 VOC	C C C C	01-133 01-134 01-135 01-136
POLYC	Poly-Carb, Inc. 33095 Bainbridge Road Cleveland, OH 44139	Mark-124	A	02-024
PROS1	Prosoco, Inc. 111 Snyder Road South Plainfield, NJ 07080	Consolideck Saltguard WB	C	99-140

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MISCELLANEOUS: AASHTO T-259 & AASHTO T-260
FHWA RD 78-35, SEC. 4.B.77
Penetrating Sealers to reduce CHLORIDE Penetration of Concrete

❖ **The use of some penetrating sealers may effect the frictional properties of concrete surfaces. Consult the manufacturer before using sealer on surfaces subject to vehicular or predestrian Traffic.**

(A) Epoxy in Solvent
(B) Epoxies Dispersed in Water
(C) Organo-Silicon Compound in Water
(D) Organo-Silicon in Solvents
(E) Polymer Impregnant
(F) Resins in Mineral Spirits
(G) Silicates in Water

		PRODUCT	TYPE	REF. NO.
SIKA1	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302	Sikagard 70 Sikagard 701 W	D C	87-343 00-144
SIKA2	Lyndhurst, NJ			
SURTR	Surtreat Corp. 437 Grant Street Pittsburgh, PA 15219	Repel 10	G	94-116
TAMMS	Tamms Industries 3835 State Route 72 Kirkland, IL 60146	Dural 333 Baracade 16 Baracade Silane 40 Baracade WB 244	A D C C	94-243 94-234 00-165 99-185
UNITC	United Coatings 19011 East Cataldo Road Greenacres, WA 99016	Canyon Tone Clear	C	00-338
WATSB	Watson Bowman Acme Corp. 95 Pineview Dr. Amherst, NY 14228	Wabo®WDE	B	83-029
WKTEK	Wicktek, Inc. P. O. Box 59 Farmington, PA 15437	Densicrete	G	95-049
XYPEX	Xypex Chemical Corporation 13731 Mayfield Place Richmond, British Columbia Canada V6V 2G9	Xypex Concentrate	G	02-019

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MISCELLANEOUS

POLYMER MODIFIED AND SPECIAL CEMENTS, MORTARS AND CONCRETE

✪ **Vertical and Overhead** ◆ **Not Approved for ASR Mitigation**
☒ **For pre-cast, pre-stress, & dry-cast cosmetic repairs only**

			Ref. No.
ADMXT	Admixtures, Inc. 34 East Lancaster Ave. P. O. Box 125 Shillington, PA 19607	BC Non-shrink grouting & Agg.	86-085
CHEMM	Chem Masters 300 Edwards St. Madison, OH 44057	Speed Patch	96-135
CHMRX	ChemRex, Inc. 889 Valley Park Drive Shakopee, MN 55379	✪ ThoRoc HB2 Repair Mortar	83-080
		Thorogrip Anchoring Cement	89-218
		Emaco T415 Mortar (Metallic)	71-043
		✪ Emaco R320	81-009
		Emaco S88-CI	92-034
		Emaco R320	95-080
		Emaco R310 (not Rapid Hardening)	94-024
		✪ Emaco S66-CI	94-284
CTS-1	CTS Cement Mfg., Co. 11065 Knott Ave., Suite A Cypress, CA 90630	Rapid Set Cement	86-358
		Rapid Set Concrete Mix (Sec. 624.2(c)	93-092
		Chem Comp III (for Type-K)	89-085
		CTS Type K	01-161
DAYT1	Dayton Superior 4226 Kansas Avenue Kansas City, KS 66106	Day Chem Ad Bond (J-40)	95-161
		✪ HD-25	99-207
ESS-1	Essroc Materials Inc. 3251 Bath Pike Nazareth, PA 18064	Type S Cement	02-107
		Type M Cement	02-108
		Type N Cement	02-109
ESS-6	Bessemer, PA		

MISCELLANEOUS

POLYMER MODIFIED AND SPECIAL CEMENTS, MORTARS AND CONCRETE

✪ **Vertical and Overhead** ◆ **Not Approved for ASR Mitigation**
☒ **For pre-cast, pre-stress, & dry-cast cosmetic repairs only**

				Ref. No.
EUCLD	Euclid Chem. Co. 19218 Redwood Rd. Cleveland, OH 44110		Eucocrete	02-154
KAUFM	Kaufman Products, Inc. 3811 Curtis Ave. Baltimore, MD 21226	☒	HiCap Patching Compound HiCap Light Patching Compound	92-295 94-269
LAFR7 **LAFR12**	Lafarge N.A., Whitehall Cement Mfg. Whitehall, PA Marietta, GA		Type IP Blended ◆ T-SF Blended Type K	93-214 98-013 94-085
NATPC	National Permacrete Co. 590 N. Vally Forge Rd. P. O. Box 886 Deon, PA 19333	☒	Permacrete	98-168
PREBL	Pre-Blend Products, Inc. 100 Ben Fairless Drive Fairless Hills, PA 19030	☒	Blend Crete	87-072
QUIKR	The Quikrete Companies One Securities Center 3490 Piedmont Rd N.E.,Suite 1300 Atlanta, GA 30305	✪ ✪ ✪ ✪ ✪	Gunite MS (Machine applied as per Section 1017) FastSet™ Cement FastSet™ Repair Mortar FastSet™ Non-Shrink Grout FastSet™ Dot Mix FastSet™ Commercial Grade Concrete Mix	02-014 00-287 00-291 00-292 03-004 00-288

MISCELLANEOUS

POLYMER MODIFIED AND SPECIAL CEMENTS, MORTARS AND CONCRETE

✪ **Vertical and Overhead** ◆ **Not Approved for ASR Mitigation**
☒ **For pre-cast, pre-stress, & dry-cast cosmetic repairs only**

			Ref. No.
SIKA1	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302	Sikatop Plus 111	78-043
		Sikatop Plus 121	80-016
		Sikatop Plus 122	79-036
SIKA2	Lyndhurst, NJ	✪ Sikatop Plus 123	82-007
		Sikadur 42 Grout Pak (for seating base plates)	92-005
		✪ Sika Cem 133	92-006
TAMMS	Tamms Industries 7405 Production Drive Mentor, OH 44060	Dural Top Fast Set	94-235
		Dural Top Gel	96-224
		✪ Speedcrete Red Line	01-143
USCPR	US Concrete Products 1107 Kenilworth Drive, Suite 310 Baltimore, MD 21204 Plant: Pleasant Gap, PA	High Performance DOT Grade Repair Mortar	02-140
		High Performance Cement	02-141
		High Performance Fast Setting Concrete	03-147
USGY1	U. S. Gypsum Co. Industrial Gypsum Division P.O. Box 803871 Chicago, IL 60680-3871	Duracal (air entrainment)	71-073

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MISCELLANEOUS PRECAST CONCRETE PRODUCTS

DM4, Vol. 1, Part A, Sec. 1:12 For Approval

A. Earth Retainment Systems

1. Foster Geotechnical (MSE wall)
2. Reinforced Earth Co. (MSE wall)
3. Wall Lagging
4. Evergreen Wall
5. Cribbing
6. Dura Hold (SOL 431-99-09)
7. T-Wall Units (The Neel Co.)

B. Alternate Sound Barrier Systems

1. Fanwall 93-034
2. Superior Precast (SOL 431-98-29)
3. Absorptive Precast Sound Barrier Panels (SOL 431-00-13) CPS/Dubrook Wall

C. Erosion Control Systems

1. Dura Hold II (Nonstructural)
   Special Provision S00(ID06721A)

D. Precast Concrete Arch Systems

1. Con-Span 86-353
   Special Provision S00(ID10841A)
2. Bebo Bridge System 98-211
   (As per SOL 431-00-05

E. Precast Bridge Superstructures

1. Inverset (As per SOL 431-96-49)

F. Alternate Precast Concrete Parapets

1. Barlok

◆ **Note: Companies listed below are licensors only and not approved manufacturers.**

◆ **Reinforced Earth Co. (A2), (F1) - REIN0**
◆ **Risi Stone Systems (A7) - 95-144**
◆ **Con/Span Bridge Systems (D1) - CSPAN**
◆ **L. B. Foster Company (A1) - FOST4**

	PRECASTERS	TYPE	REF. NO.
CONCR	Concrete Concepts, Inc. 1095 Thompson Ave., P.O. Box 272 McKees Rocks, PA 15136	A1, A2, A3	----------
CONPS	Concrete Precast Systems, Inc. 4215 Lafayette Center Drive, Suite 1 Chantilly, VA 20151	B3	99-130
CONSS	Concrete Safety Sys. 9190 Old Route 22 Bethel, PA 19507	A1, A2 B1 A7	---------- 99-199

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MISCELLANEOUS PRECAST CONCRETE PRODUCTS

DM4, Vol. 1, Part A, Sec. 1:12 For Approval

	PRECASTERS	TYPE	REF. NO.
DAILY	Dailey, W. E. Inc. RR1A Box 51, Airport Rd. Shaftsbury, VT 05262	A2	95-070
EAGLE	Eagle Concrete Products P. O. Box 585 Somerset, PA 15501	A3	02-135
FADD1	Faddis Concrete Products 3515 Kings Highway Dowingtown, PA 19335	A6	99-190
FADD2	New Castle, PA	A3	01-121
FT-ML	Fort Miller Co. P. O. Box 98 Schuylerville, NY 12871-0098	E1	90-117
HANS1	Hanson Pipe & Products, Inc. P. O. Box 955 Pottstown, PA 19464	A3, B1 B2	---------- 91-245
HYDR1	Hydro Conduit Division of Rinker Materials 2000 Gregg Station Road P.O. Box 126 Oakdale, PA 15071	D1	----------
HYDR3	Diamond, OH 44412	D1	----------
J&RS1	J. & R., Slaw, Inc. 588 S. Kittatinny Rd. P. O. Box D Bowmanstown, PA 18030-0060	A1, A2, A3, B1, F1	----------
MIDAP	Mid Atlantic Precast, Inc. 401 Railroad Street Monongahela, PA 15063	A6 C1	95-144 ----------

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MISCELLANEOUS PRECAST CONCRETE PRODUCTS

DM4, Vol. 1, Part A, Sec. 1:12 For Approval

	PRECASTERS	TYPE	REF. NO.
MILL0	Miller, A. C., Concrete Products P. O. Box 93, Rt 22 Blairsville, PA 15717	D1 B1	00-072 ----------
NEW-0	New Enterprise S & L Co. P. O. Box 34 Roaring Springs, PA 16673	A5	----------
NITT0	Nitterhouse Concrete Prod. P. O. Box N Chambersburg, PA 17201	A4	92-047
ROTP1	Rotondo Precast 514 Township Line Road Telford, PA 18969	D2	98-211
SCHUY	Schuylkill Prod., Inc. 121 River Street Cressona, PA 17929	A4	
TERH1	Terre Hill Concrete Prod., Inc. 42 South Butler Road Lebanon, PA 17042	D1	01-141
WILLA	Williams, K. J. Concrete Co. P. O. Box 5237 Cresaptown, MD 21502	A1, A2, B1	----------
WYOMG	Wyoming Concrete Ind., Inc. Railroad Ave. & Southern Blvd. Wyoming, DE 19934	A1, A2	95-129

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MISCELLANEOUS
SEDIMENT FILTER BAG
Special Provision S00 (ID08581A)

			REF. NO.
ACF-2	A. C. F. Environmental Inc. 2831 Cardwell Road Richmond, VA 23234	Dirt Bag	95-156
INDVA	Indian Valley Industries 100 Corliss Avenue Johnson City, NY 13790	1515 Filter Bag	01-020
JOHNS	Johnston-Morehouse-Dickey Co. 5401 Progress Boulevard Bethel Park, PA 15102	Enviro-Protection Bag	97-122
ROBER	Roberts, Frank & Sons, Inc. R.D. #2, Box 81 Punxsutawney, PA 15767	FB-3 Filter Bag	95-019

MISCELLANEOUS
SPECIAL BITUMINOUS PATCHING MATERIALS

			Ref. No.
CRAF0	Crafco, Incorporated 420 N. Roosevelt Ave. Chandler, AZ 85226	Polypatch, Types 1, 2, and 3, Hot Applied	00-064
HEILM	Heilman Pavement Specialties 290 North Pike Rd. Sarver, PA 16055-9735	HEI-Way Gen. Purpose Permanent Patching Material HEI-Way Premium Stockpile Permanent Patching Matl. HEI-Way Latex Modified Permanent Patching Material	83-128 80-077 83-127
LAFR14	Lafarge North America QPR Division, 200 Deerfield Point 12735 Morris Road Extension Suite 200, Alpharetta, GA 30004 **Formerly: Blue Circle Agg. (BLUCA)**	QPR 2000 High Performance Permanent Cold Patch	89-219
RUSS2	Russell Standard Corp. #2 Prestly Rd. Bridgeville, PA 15017	Polypave Stockpile Patch	82-025
SEABD	Seaboard Asphalt Prod. Co. 3601 Fairfield Road Baltimore, MD 21226	BOND-X High Performance Cold Patch	94-280
SUIT0	Suit-Kote 1911 Lorings Crossing Road Cortland, NY 13045-5160	SK-MOD High Performance Cold Patch	94-086
UPMCP	Unique Paving Materials Corp. 3993 East 93rd St. Cleveland OH 44105-4096	UPM High Performance Cold Patch	92-058
UP&SV	United Products & Services P. O. Box 11339 Pittsburgh, PA 15238	"Perma-Patch" High Performance Cold Patch	86-037

			Ref. No.
MFIBR	Fibercon Internat., Inc. 100 South Third Street Evans City, PA 16033	Fibercon steel Fibers	91-133
BKERT	Bekaert Corporation 1395 South Marietta Parkway Building 500, Suite 100 Marietta, GA 30067	Dramix	99-018

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MISCELLANEOUS: Traffic Division

Photovoltaic Modules

Must satisfy requirments of Section 910.3(u)3 & 910.3(v).

Approval for use only granted on project by project basis by Special Provision in the contract.
Use in rural areas where cost-effectiveness can be demonstrated.

KYOCE Kyocera International, Inc.
8611 Balboat Ave.
San Diego, CA 92123

Ltr 01/04/91

Sign Trailer with Solar Powered Flashing Beacons

May be used with regulatory or warning series signs within a construction zone.
However, the sign trailer shall not be used in place of a Type B warning light as required by Department Regulations. The red beacons shall only be used in conjunction with a STOP sign.

	Company	Model	Power	Mount	Color
PROTE	Protection Services, Inc. 635 Lucknow Road Harrisburg, PA 17110	PFAW-M91-SST	Solar	Trailer	Yellow or Red
TRFCN	Trafcon Industries, Inc. 81 Texaco Road Mechanicsburg, PA 17055	SST-1	Solar	Trailer	Yellow or Red

MISCELLANEOUS: Traffic Division

Traffic Alert Radio

	Manufacturer	Model	Type	Power	Ref. No.
TRFCN	Trafcon Industries, Inc. 81 Texaco Road Mechanicsburg, PA 17055	Wizard	CB	Battery Vehicle, AC w/adapt	98-007

Traffic Warning Signal
Delineator, Spinning

	Manufacturer	Product	Ref. No.
SHEWN	Sherwin Industries, Inc. 2410 Copper Hill Place Midlothian, VA 23112	Safe T Spin ***** *** NOTE: This device shall not be used in place of a warning light req. by Pub. 203.**	95-107

MISCELLANEOUS: Traffic Division
Yield to Pedestrian Channelizing Devices

		Model	Type	Size	Mount	Message
CONSF	Continental Safety & Supply Co., Inc. 790 Bloomfield Ave Clifton, NJ 07012	Soft Sandwich	Cone w/sign	18" x 36"	Surface (unfastened)	98-011
EASMS	Eastern Metal/USA Sign 1430 Sullivan Street Elmira, NY 14901	Big Foot	Vertical Panel	12” x 36”	Surface (unfastened)	00-161
GARDS	Garden State Hwy Products 1740 East Oak Road Vineland, NJ 08361	Ped Barricade	Vertical Panel	12” x 36”	Surface (unfastened)	02-042
IMPRS	Impact Recovery Systems 246 West Josephine St. San Antonio, TX 78212	Special Ped Crossing Sign	Vertical Panel	12” x 42”	Surface (unfastened)	R9-9
PROTE	Protection Services, Inc. 635 Lucknow Road Harrisburg, PA 17110	Big Foot	Vertical Panel	12” x 36”	Surface (unfastened)	00-161

MISCELLANEOUS: Traffic Division

Truck Mounted Attenuators

NCHRP REPORT 350

❶ **Level #3, 100kph (62.1 mph)** ❷ **Level #2, 70 kph (41.3 mph)**

		Model	Ref. No.
ENERG	Energy Absorption Sys., Inc. One EastWacker Drive. Chicago, IL 60601-2076	◆ ❹ ALPHA 1000	93-291A
		◆ ❹ ALPHA 2001MD	93-291B
		◆ ❸ ALPHA 60 TMA	93-291C
		◆ ❹ HEX-FOAM TMA	93-291D
		❷ ALPHA 70K TMA	97-055
		❶ ALPHA 100K TMA, Model 8190	97-159
		❶ SAFE-STOP TMA, Model 8290	99-177
		❶ SAFE-STOP TMA, Model 180	TMA-2(03)
PROTE	Protection Services, Inc. 635 Lucknow Road Harrisburg, PA 17110	◆ ❹ Hexcel Crash Cushion	Ltr 05/05/95
		❶ REACT-350 TMA	98-158
SYRS2	Syro, Inc. 2525 Stemmons Freeway Dallas, TX 75207	❶ MPS-350III	97-035
TRAMA	Traffic Maintenance Attenuators P. O. Box 115 Line Lexington, PA 18932	❶ U-MAD 100k	00-229
		❷ U-MAD 70k	00-229
TRFXD	Traffix Devices, Inc. 220 Calle Pintoresco San Clemente, CA 92672	❷ Scorpion Model A 10,000	00-301
		❶ Scorpion Model C 10,000	00-301
TRIHS	Trinity Highway Safety Products P. O. Box 568887 Dallas, TX 75356-8887	❶ MPS 350	TMA-1(03)

◆ THIS DEVICE **MAY NOT BE SOLD** FOR USE IN PENNSYLVANIA. HOWEVER, IF THIS DEVICE IS CURRENTLY BEING UTILIZED IN PENNSYLVANIA IT MAY ONLY BE USED FOR THE REMAINDER OF ITS NORMAL SERVICE LIFE

❸ NCHRP Report 230, 60 mph)

❹ NCHRP Report 230, 45 mph)

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MISCELLANEOUS: Traffic Division
Lane Separator Curb

	Company Name	Product	Ref. No.
QWICK	Qwick Kurb, Inc. 1916 US 41 South Ruskin, FL 33570	Qwick Kurb	02-117

Water-Filled Barriers, Temporary
Special Provision S00 (ID06981A)

	Company Name	Product	Ref. No.
ARMOR	Armorcast Products Company 13230 Saticoy Street North Hollywood, CA 91605	Guardian Safety Barrier, Level 3 Item 9698-0001 (See also SOL 470-97-53)	95-010
ENERG	Energy Absorption Sys., Inc. 1 East Wacker Dr. Chicago, IL 60601	Triton Barrier, Level 2 (Item 9698-0010) Triton Barrier, Level 3 (Item 9698-0010) (See also SOL 470-97-53)	93-033 01-172
YODOK	Yodock Wall Company, Inc. 623 N.E., 5th Terrace Fort Lauderdale, FL 33304	Yodock Model 2001M, Level 2 Yodock Model 2001M, Level 3	02-176 02-177

MISCELLANEOUS
Waterproofing Fabric (Bituminous)

BREWR	Brewer Co. 30060 Lakeland Blvd. Wickliffe, Ohio 44092	Cotton Fabric **(Asphalt Saturated)**	

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MISCELLANEOUS
Admixtures for Concrete
Waterproofing Admixture = WP Viscosity Modifying Admixture = VM
✸ Lithium Admixture for Alkali Silica Reactivity Remediation = LI

✸ **AASHTO Guide Specification: Portland Cement Concrete resistant to excessive expansion caused by Alkali Silica Reaction**

❶ **Provisional Approval : MTD must be contacted prior to use. (717) 787-2489**

			Type	Product	Ref. No.
FMCLD	FMC Corporation, Lithium Division 449 N. Cox Road, P.O. Box 3925 Gastonia, NC 28054		**LI**	Lifetime™ N	99-058
			LI	Lifetime™ SL	99-059
GRAC0	W. R. Grace Co. 62 Whittemore Ave. Cambridge, MA 02140-1692		**WP**	Darapel	96-164
		❶	**VM**	V-Mar 3	03-061
IPA-S	IPA Systems, Inc. 2745 N Amber Street Philadelphia, PA 19134		**WP**	Ipanex	91-112
MAST0	Master Builders, Inc. 23700 Chagrin Blvd. Cleveland, OH 44122		**WP**	Rheomix Reheopel	99-050
		❶	**VM**	Rheomac UW 450 / VMA 450	01-210
		❶	**VM**	Rheomac VMA 358	01-211
SIKA1	Sika Corporation 1682 Marion Williamsport Road Marion, OH 43302	❶	**WP**	Sikaproof CS	98-048
XYPEX	Xypex Chemical Corporation 13731 Mayfield Place Richmond, British Columbia Canada V6V 2G9		**WP**	Xypex Admixture	02-020

END OF BULLETIN 15 LISTING

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NOTE:

THIS PAGE HAS BEEN INSERTED ONLY AS AN ADJUSTMENT TO ALLOW THE FOLLOWING PAGE TO BE A FRONT FACING TITLE PAGE IN THIS DOUBLE SIDED DOCUMENT

Monday, April 26, 2004
Pennsylvania Department of Transportation
PENNDOT

p330

AISC AND DEPARTMENT REGISTER

OF

CERTIFIED STRUCTURAL STEEL FABRICATORS

NOTE:

The companies listed on the following pages have been preapproved to fabricate items for Penn DOT. Company approval to fabricate Penn DOT projects must be received prior to commencement of any work, from the Structural Materials Engineer, MTD, Harrisburg, PA.

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NOTE:

THIS PAGE HAS BEEN INSERTED ONLY AS AN ADJUSTMENT TO ALLOW THE FOLLOWING PAGE TO BE A FRONT FACING TITLE PAGE IN THIS DOUBLE SIDED DOCUMENT

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AISC AND DEPARTMENT REGISTER OF CERTIFIED PLANTS

These plants have been preapproved to fabricate items for PA DOT by the Structural Materials Engineer, MTD, Harrisburg, PA.

Sbr = Simple Steel Bridges **Cbr = Major Steel Bridges** **F = Fracture Critical Endorsement**

Note ❶ : Not Approved to Perform Submerged Arc Welding **Note ❷ : Not Approved to Perform Welding**

	Plant	Plant City	Plant State	Category
AMBRM	American Bridge Manufacturing Co.	Coraopolis	PA	Cbr, F
AUCEL	Auciello Iron Works, Inc.	Hudson	MA	Sbr
AVOCA	Avoca Machine Company, Inc.	Duryea	PA	Sbr
BRFAB	Brookfield Fab.	Brookfield	MO	Sbr
BRGTW	Bridges & Towers, Inc.	New Castle	PA	Cbr, F
BROWD	Brown, D. S., Co.	N. Baltimore	OH	Sbr
BROW1	Brown, D. S., Co.-Chaska Operations	Chaska	MN	Cbr, F
CPCSC	Capitol City Steel Co., Inc.	Austin	TX	Sbr
CAR01	Carolina Steel Corp.	Colfax	NC	Cbr, F
CAR02	Carolina Steel Corp.	Nashville	NC	Cbr, F
CAR03	Carolina Steel Corp.	Abingdon	VA	Cbr, F
COLNW	Colonial Iron Works, Inc.	Cannonsburg	PA	Cbr, F
CORNL	Cornell & Company, Inc.	Woodbury	NJ	Cbr, F
COSME	Cosmec, Inc.	Walpole	MA	Sbr
DURAB	Dura-Bond Steel Corp.	Export	PA	Sbr
EASBR	Eastern Bridge LLC	Claremont	NH	Cbr

AISC AND DEPARTMENT REGISTER OF CERTIFIED PLANTS

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Note ❶ : Not Approved to Perform Submerged Arc Welding **Note ❷ : Not Approved to Perform Welding**

	Plant	Plant City	Plant State	Category
FOSPR	Foster Precise	Georgetown	MA	Cbr
FOST2	Foster, L. B., Co.	Bedford	PA	Sbr
GRENR	Greiner Industries, Inc.	Mount Joy	PA	Cbr
GRJSC	Grand Junction Steel Co.	Grand Junction	CO	Cbr, F
HALL1	Hall Industries, Hall Equipment Division	Ellwood City	PA	Sbr ❷
HALL2	Hall Industries, Inc.	Ellwood City	PA	Sbr
HASSC	Harris Structural Steel Co.	S. Plainfield	NJ	Cbr, F
HELMK	Helmark Steel, Inc.	Wilmington	DE	Cbr, F
HIGH1	High Steel Structures, Inc.	Lancaster	PA	Cbr, F
HIGH2	High Steel Structures, Inc.	Williamsport	PA	Cbr, F
HILND	Highland Steel, Inc.	St. Marys	PA	Sbr
INTDS	Interlocking Deck Systems, Intl.	Pittsburgh	PA	Sbr
KINSM	Kinsley Manufacturing	York	PA	Sbr
LEHUA	Lehigh Utility Assoc.	S. Plainfield	NJ	Sbr
LITEL	Littell Steel Co.	Fallston	PA	Cbr, F

AISC AND DEPARTMENT REGISTER OF CERTIFIED PLANTS

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	Plant	Plant City	Plant State	Category
MADSF	Madden Steel Fab,	Hollidaysburg	PA	Sbr
MCIWK	Michelman Cancelliere Ironworks	Bath	PA	Cbr
MCMAN	J. A. McMahon, Inc.	Niles	OH	Sbr
MISUF	Missouri Fabricators	Fulton	MO	Sbr
NATEC	National Eastern Corporation	Plainville	CT	Cbr
OAKIW	Oakdale Iron Works	Oakdale	PA	Sbr
OHBRG	Ohio Bridge Corporation	Cambridge	OH	Cbr, F ❶
OHSTR	Ohio Structures, Inc.	Berlin Center	OH	Cbr
PDMB1	PDM Bridge	Eau Claire	WI	Cbr, F
PDMB2	PDM Bridge	Wausau	WI	Cbr, F
PELET	Pelet's Welding, Inc.	Coatsville	PA	Cbr
PENST	Penn Summit Tubular, LLC	West Hazleton	PA	Sbr
POWSC	Powell Steel Corporation	Lancaster	PA	Cbr, F
RENMF	Reynolds Mfg'ering Co.	Avonmore	PA	Cbr
RP-MA	R. P.'s Machinery Sales	Jersey Shore	PA	Cbr
SAFGD	Safety Guard Steel Fabricating Co.	Millvale	PA	Sbr
SEMMW	Seibel Modern Mfg. & Welding Corp.	Lancaster	NY	Sbr
SHANE	Shane Felter Ind., Inc.	Uniontown	PA	Cbr, F
SIGMA	Sigma Industries	Selbyville	DE	Sbr

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AISC AND DEPARTMENT REGISTER OF CERTIFIED PLANTS

These plants have been preapproved to fabricate items for PA DOT by the Structural Materials Engineer, MTD, Harrisburg, PA.

Sbr = Simple Steel Bridges **Cbr = Major Steel Bridges** **F = Fracture Critical Endorsement**

Note ❶ : Not Approved to Perform Submerged Arc Welding **Note ❷ : Not Approved to Perform Welding**

	Plant	Plant City	Plant State	Category
STEAD	Steadfast Bridges	Fort Payne	AL	Cbr
STUPP	Stupp Bridge Co.	Bowling Green	KY	Cbr, F
SWISS	Swiss Fabricating, Inc.	Cranberry Township	PA	Sbr
TAMPA	Tampa Steel Erecting Co.	Tampa	FL	Cbr, F
UNIMC	Union Metal Corp.	Canton	OH	Sbr
VALM1	Valmont Ind., Inc. Ind. Constr. Prod.	Valley	NE	Sbr
VALM2	Valmont Ind., Inc. Ind. Constr. Prod.	Elkhart	IN	Sbr
VALUE	Value Structures, Inc.	Ellwood City	PA	Sbr
WALPR	Walpar, Inc.	Birmingham	AL	Sbr
WATSB	Watson Bowman Acme Corp.	Amherst	NY	Sbr
WMBC1	Williams Bridge Co.	Manassas	VA	Cbr, F
WMBC2	Williams Bridge Co.	Richmond	VA	Cbr, F
WTWCC	W.T.Welding & Contracting Co., Inc.	Mt. Laurel	NJ	Sbr
ZSTAR	Z-Star, Inc.	Watertown	NY	Sbr

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PENN DOT REGISTER

OF

CERTIFIED MACHINE SHOPS

NOTE:
As a producer under this listing, you are considered eligible to manufacture and furnish machining operations on products for the Department provided they conform to the Department of Transportation Specifications, Pub 408 and approved shop drawings.

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NOTE:

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MACHINE SHOPS

Note ❶: Approved for Grinding Operations Only
Note ❷: Approved for Drilling and Cutting of Plate Steel Only

AccuTrex Products, Inc.	112 Southpointe Blvd., Canonsburg, PA 15317	←❷
Acme Grinding Services, Inc.	126 East Niagara St., Tonawanda, NY 14150	←❶
Aliquippa Machine Co., Inc.	21 Century Drive, Ambridge, PA 15003	
A.M. Castle & Company	26800 Miles Road, Bedford Heights, Ohio 44146	
Aucello Iron Works Inc.	560 Main Street, Hudson, MA 01749	
Augusta Bearing Works	610 11th Street, Augusta, GA 30901	
Avoca Machine Company, Inc.	203 Clarke Road, Duryea, PA 18642	←❷
Bear Ridge Machine & Fabrication, Inc.	10 Eleanor Ave., Frackville, PA 17931	
Brown, D. S., Co.	P. O. Box 158, North Baltimore, OH 45872	
Brown, D. S., Co.-Chaska Operations	4201 Norex Drive, Chaska, MN 55318	
Chapel Steel Company	191 South Keim Street, Pottstown, PA 19464	←❷
Consolidated Steel Services, Inc.	632 Glendale Valley Blvd., Fallentimber, PA 16639	←❷
Cosmec, Inc.	70 South St., Walpole, MA 02081	
Davis Machine Co.	180 Front Street, Leetonia, OH 44431	
Delaware Valley Steel	2249 West Manor Rd., Upper Darby, PA 19082	←❷
Diversified Manufacturing, Inc.	410 Ohio St., Lockport, NY 14094	
Dyson Corporation	53 Freedom Rd., Painesville, OH 44077	
Eastern Shaft & Manufacturing	160 Court St., Lancaster, NY 14086	
Ellis Machine & Fabrication, Inc.	1560 Harlem Road, Buffalo NY 14206	
Extreme Machine & Fab., Inc.	76 East Dennick Ave., Youngstown, OH 44505	
Fastenal Company Manufacturing Division	1801 Theurer Blvd., Winona, MN 55987	
Ferro Union Southeast, Inc.	2005 Grassland Parkway, Alpharetta, GA 30004	←❷
Fletcher Machine, Inc.	19537 U.S. Route 6, Weston, OH 43569	

MACHINE SHOPS

Note ❶: Approved for Grinding Operations Only
Note ❷: Approved for Drilling and Cutting of Plate Steel Only

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Hall Industries, Inc.	514 Mecklam Lane, Ellwood City, PA 16117	
Hall Industries, Hall Equipment Div.	1 USS Industrial Park, Ellwood City, PA 16117	
High Steel Structures	P. O. Box 10008, Lancaster, PA 17605-0008	
Jerl Machine, Inc.	11140 Avenue Road , Perrysburg, OH 43551	
Kellner Brothers, Inc.	222 Chicago St., Buffalo, NY 14204-2249	❷
Kenglo Construction Supply Co., Inc.	P. O. Box 54, Rt. 403 South, Strongstown, PA 15957	❷
Kercher Machine Works	920 Mechanic St., Lebanon, PA 17042	
Lancaster Steel Service Co.	3915 Walden Ave., Lancaster, NY 14086	❷
Lawruk Machine & Tool Co.	302 East 6th Ave., Altoona, PA 16602	
Logue Industries, Inc.	120 South Arch St., Montoursville, PA 17754	
Lubrite Technologies	18649 Brake Shoe Road, Rt. 19 N., Meadville, PA 16335	
Marstrand Industries, Inc.	12 Rutgers Road, P.O. Box 44089, Pittsburgh, PA 15205	
Metals USA	1800 East Byberry Rd., Philadelphia, PA 19116	❷
Metals USA	2500 Duncan Street, Philadelphia, PA 19124	❷
Metals USA	81 Century Drive, Ambridge, PA 15003	❷
Metals USA	6991 Freedom Ave.,NW, North Canton, OH 44720	❷
Michelman Cancellere Ironworks	7230 Beth-Bath Pike, Rt 512, Bath, PA 18014	
Muncy Machinery	P. O. Box 205, Muncy, PA 17756	
Niagara Manufacturing Co.	2725 West 17th St., Erie, PA 16505	
Olympic Steel, Cleveland Division	5080 Richmond Road, Bedford Heights, OH 44146	❷
O'Neal Steel Co.	2975 Duss Ave., Ambridge, PA 15003	
Oswald & Associates	R. D. #1, Box 7A, Huntington, PA 16652	

MACHINE SHOPS

Note ❶: Approved for Grinding Operations Only
Note ❷: Approved for Drilling and Cutting of Plate Steel Only

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Peirce Welding & Fabricating, Inc.	170 Airport Road, P.O. Box 369, Bethel, PA 19507	
P. K. Machine	9 Brooks Ave., Willow Street, PA 17584	
Premium Tool Co., Inc.	1082 Penn Avenue, Jersey Shore, PA 17740	←❷
Ranor, Inc.	Bella Drive, Westminster, MA 01473	
Richards Machine Tool Co., Inc.	3753 Walden Ave., Lancaster, NY 14086	
R & M Grinding, Inc.	P.O. Box 446, Meadowlands, PA 15347	←❶
R. P. Machinery Sales Inc.	RD #4, P. O. Box 507, Jersey Shore, PA 17740	
Ryerson Steel	Arch St. & Bell Ave., Carnegie, PA 15106	←❷
Samuel Plate Sales	635 South Park Ave., Buffalo, NY 14210	←❷
Schaefer Machine, Inc.	727 Robinson Hwy., RT 980, McDonald, PA 15071	
Scheirer Machine Co., Inc.	3200 Industrial Blvd., Bethel Park, PA 15120-0670	
Steel Shearing, Inc.	5300 Lakeside Ave East STE-2, Cleveland, OH 44114	←❷
Steelworks, Inc.	2335 Toledo Ave. P.O.Box 390, Trenton, MI 48183	
Thompson Machine	1128 Fourth Ave., Altoona, PA 16601	
Time Machine, Inc.	R.D. #1, Box 181, Polk, PA 16432	
The Machine Fab. & Wt. Equip. Shop	267 Coolspring St., Uniontown, PA 15401	
Voss Manufacturing, Inc.	2345 Lockport Road, Sanborn, NY 14132	
Walter Long Manufacturing Co., Inc.	86 Walter Long Road, Finleyville, PA 15332	
White Fab, Inc.	724 Avenue W, Birmingham, AL 35214	←❷
Youngstown Pipe & Supply, Inc.	4100 Lake Park Road, Youngstown, OH 44513	←❷
Youngstown Pipe & Supply, Inc.	11818 Mahoning Ave., North Jackson, OH 44451	←❷

NOTE:

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p342

AISC, SSPC AND DEPARTMENT REGISTER

OF

CERTIFIED PAINT SHOPS

NOTE:

The companies listed on the following pages have been preapproved to paint items for Penn DOT. Company approval to paint Penn DOT projects must be received prior to commencement of any work, from the Structural Materials Engineer, MTD, Harrisburg, PA.

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NOTE:

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p344

AISC, SSPC AND DEPARTMENT REGISTER OF CERTIFIED PAINT SHOPS

These plants have been pre-approved to paint items for PA DOT by the Structural Materials Engineer, MTD, Harrisburg, PA. The Paint Shops listed below are approved by either the AISC Sophisticated Paint Endorsement (SPE) Program or the Society For Protective Coatings (SSPC) QP3 Certification Program.

Note ❶ : Shop has SSPC-QP3 required for removal & disposal of Hazardous Coatings.

Paint Shop	City	State
American Bridge Manufacturing Co.	Coraopolis	PA
Augusta Iron & Steel Works	Augusta	GA
Bridges & Towers, Inc.	New Castle	PA
Brown, D. S., Co.	North Baltimore	OH
Brown, D. S., Co.-Chaska Operations	Chaska	MN
Carolina Steel Corp.	Colfax	NC
Carolina Steel Corp.	Nashville	NC
Carolina Steel Corp.	Abingdon	VA
Colonial Iron Works, Inc.	Cannonsburg	PA
Cornell & Company, Inc.	Woodbury	NJ
Cosmec, Inc.	Walpole	MA
Eastern Bridge LLC	Claremont	NH
Foster Precise	Georgetown	MA
Greiner Industries, Inc.	Mount Joy	PA

AISC, SSPC AND DEPARTMENT REGISTER OF CERTIFIED PAINT SHOPS

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Note ❶ : Shop has SSPC-QP3 required for removal & disposal of Hazardous Coatings.

Paint Shop	City	State	
Grand Junction Steel Co.	Grand Junction	CO	
Harris Structural Steel Co.	S. Plainfield	NJ	
Helmark Steel, Inc.	Wilmington	DE	
High Steel Structures, Inc.	Lancaster	PA	
High Steel Structures, Inc.	Williamsport	PA	
Kinsley Manufacturing	York	PA	
Littell Steel Co.	Fallston	PA	
Meadville Sandblasting, Inc.	Meadville	PA	❶
Midwest Tank Service, Inc.	Canton	OH	❶
Missouri Fabricators	Fulton	MO	
National Eastern Corporation	Plainville	CT	
Niagara Coatings Services	Niagara Falls	NY	❶
Oesterling's Sandblasting & Painting	Butler	PA	❶
Ohio Bridge Corporation	Cambridge	OH	
Ohio Structures, Inc.	Berlin Center	OH	
Palmer Industrial Coatings, Inc.	Williamsport	PA	❶
PDM Bridge	Eau Claire	WI	
PDM Bridge	Wausau	WI	

AISC, SSPC AND DEPARTMENT REGISTER OF CERTIFIED PAINT SHOPS

These plants have been pre-approved to paint items for PA DOT by the Structural Materials Engineer, MTD, Harrisburg, PA. The Paint Shops listed below are approved by either the AISC Sophisticated Paint Endorsement (SPE) Program or the Society For Protective Coatings (SSPC) QP3 Certification Program.

Note ❶ : Shop has SSPC-QP3 required for removal & disposal of Hazardous Coatings.

Paint Shop	City	State	
Pittsburgh Coating Corporation	Ambridge	PA	❶
Powell Steel Corporation	Lancaster	PA	
Regal Industrial Corporation	Donora	PA	❶
R. P.'s Machinery Sales	Jersey Shore	PA	
Safety Guard Steel Fab.	Millvale	PA	
Shane Felter Ind., Inc.	Uniontown	PA	
Steadfast Bridges	Fort Payne	AL	
Stupp Bridge Co.	Bowling Green	KY	
Valmont Ind., Inc. Ind. Constr. Prod.	Valley	NE	
Valmont Ind., Inc. Ind. Constr. Prod.	Elkhart	IN	
Walpar, Inc.	Birmingham	AL	
Williams Bridge Co.	Manassas	VA	
Williams Bridge Co.	Richmond	VA	

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Monday, April 26, 2004
Pennsylvania Department of Transportation
PENNDOT

PENN DOT REGISTER

OF

CERTIFIED STEEL BARRIER FABRICATORS

NOTE:
The companies listed on the following page have been preapproved to fabricate Steel Barriers for Penn DOT. Company approval to fabricate Penn DOT Barriers must be received prior to commencement of any work, from the Chief Structural Materials Engineer, MTD,Harrisburg, PA.

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Monday, April 26, 2004
Pennsylvania Department of Transportation
PENNDOT

PENNDOT REGISTER OF CERTIFIED STEEL BARRIER FABRICATORS

These plants have been pre-approved to fabricate steel barriers as defined by BC 707M (PA, HT Bridge Barrier), BC 709M (PA Type 10M Bridge Barrier) or BC 713M (PA Bridge Barrier) by the Structual Materials Engineer, MTD, Harrisburg, PA.

Types: ❶ = PA HT Bridge Barrier ❷ = PA Type 10M Bridge Barrier ❸ = PA Bridge Barrier

	Plant	Plant City	Plant State	Barrier
BRGTW	Bridges & Towers, Inc	New Castle	PA	❷
FOSPR	Foster Precise	Georgetown	MA	❶
FOST2	Foster, L. B., Co.	Bedford	PA	❶
HALL2	Hall Industries, Inc.	Ellwood City	PA	❷
RP-MA	R. P.'s Machinery Sales	Jersey Shore	PA	❶, ❷
SIGMA	Sigma Industries	Selbyville	DE	❶

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END OF BULLETIN # 15 DOCUMENT

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Monday, April 26, 2004
Pennsylvania Department of Transportation
PENNDOT

Monday, April 26, 2004
Pennsylvania Department of Transportation
PENNDOT